

## UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOG FILE ☒ WATER SANDS LOCATION INSUBD SUB. REPORT/abd.

DATE FILED MARCH 26, 1998

LAND: FEE &amp; PATENTED

STATE LEASE NO.

PUBLIC LEASE NO.

U-76241

INDIAN

DRILLING APPROVED: APRIL 20, 1998

SPUDDED IN:

COMPLETED: 6-22-98 8-8-98 POW PUT TO PRODUCING: 8-8-98

INITIAL PRODUCTION: Oil - 112 Bar 196°F Water 12 BBL

GRAVITY A.P.I.

GOR: 1.8

PRODUCING ZONES: 4546-6003'

TOTAL DEPTH: 6200'

WELL ELEVATION: 5194' GR

DATE ABANDONED:

FIELD: UNDESIGNATED

UNIT:

COUNTY: DUCHESNE

WELL NO. 7-28-8-17

LOCATION 2237 FNL

FT. FROM (N) (S) LINE,

2031 FEL

FT. FROM (E) (W) LINE.

API# 43-013-32069

SW NE

1/4 - 1/4 SEC. 28

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
8S	17E	28	INLAND PRODUCTION				

## GEOLOGIC TOPS:

QUATERNARY	Star Point	Chinle	Molas
Alluvium	Wahweap	Shinarump	Manning Canyon
Lake beds	Masuk	Moenkopi	Mississippian
Pleistocene	Colorado	Sinbad	Humbug
Lake beds	Sego	PERMIAN	Brazer
TERTIARY	Buck Tongue	Kaibab	Pilot Shale
Pliocene	Castlegate	Coconino	Madison
Salt Lake	Mancos	Cutler	Leadville
Oligocene	Upper	Hoskinnini	Redwall
Norwood	Middle	DeChelly	DEVONIAN
Eocene	Lower	White Rim	Upper
Duchesne River	Emery	Organ Rock	Middle
Uinta	Blue Gate	Cedar Mesa	Lower
Bridger	Ferron	Halgaite Tongue	Ouray
Green River	Frontier	Phosphoria	Elbert
Garden Gulch 4038	Dakota	Park City	McCracken
Point 3 4654	Burro Canyon	Rico (Goodridge)	Aneth
Marker 4874	Cedar Mountain	Supai	Simonson Dolomite
Marker 4908	Buckhorn	Wolfcamp	Sevy Dolomite
Marker 5039	JURASSIC	CARBON I FEROUS	North Point
Marker 5232	Morrison	Pennsylvanian	SILURIAN
Stone Cabin 5472	Salt Wash	Oquirrh	Laketown Dolomite
Coltop 5882	San Rafael Gr.	Weber	ORDOVICIAN
Flagstaff 5882	Summerville	Morgan	Eureka Quartzite
North Horn	Bluff Sandstone	Hermosa	Pogonip Limestone
Almy	Curtis		CAMBRIAN
Paleocene	Entrada	Pardox	Lynch
Current Creek	Moab Tongue	Ismay	Bowman
North Horn	Carmel	Desert Creek	Tapeats
CRETACEOUS	Glen Canyon Gr.	Akah	Ophir
Montana	Navajo	Barker Creek	Tintic
Mesaverde	Kayenta		PRE - CAMBRIAN
Price River		Cane Creek	
Blackhawk			

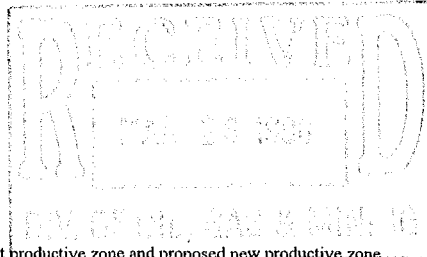
**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>U-76241</b>	
1b. TYPE OF WELL OIL <input type="checkbox"/> GAS <input type="checkbox"/> SINGLE <input type="checkbox"/> MULTIPLE <input type="checkbox"/> WELL <input checked="" type="checkbox"/> WELL <input type="checkbox"/> OTHER <input type="checkbox"/> ZONE <input type="checkbox"/> ZONE <input type="checkbox"/>		6. IF INDIAN, ALOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR <b>Inland Production Company</b>		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR <b>P.O. Box 790233 Vernal, UT 84079</b> Phone: <b>(801) 789-1866</b>		8. FARM OR LEASE NAME <b>Tar Sands Federal</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. *) At Surface <b>SW/NE</b> At proposed Prod. Zone <b>2237' FNL &amp; 2031' FEL</b> <i>660' 14'</i>		9. WELL NO. <b>#7-28-8-17</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>11.3 Miles southeast of Myton, UT</b>		10. FIELD AND POOL OR WILDCAT <b>Monument Butte</b>	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) <b>2031'</b>	16. NO. OF ACRES IN LEASE <b>2520</b>	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 28, T8S, R17E</b>	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.	19. PROPOSED DEPTH <b>6500'</b>	12. County <b>Duchesne</b> 13. STATE <b>UT</b>	
20. ROTARY OR CABLE TOOLS <b>Rotary</b>		21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5194.4' GR</b>	
22. APPROX. DATE WORK WILL START* <b>3rd Quarter 1998</b>		23. PROPOSED CASING AND CEMENTING PROGRAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH
Refer to Monument Butte Field SOP's Drilling Program/Casing Design			
QUANTITY OF CEMENT			

**Inland Production Company proposes to drill this well in accordance with the attached exhibits, "A" through "E".**

**The Conditions of Approval are attached.**



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone.

If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. *Cheryl Cameron* **Regulatory Compliance Specialist** DATE **3/2/98**  
SIGNED **Cheryl Cameron** TITLE

(This space for Federal or State office use)

PERMIT NO. 43-013-32069 APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY: **Federal Approval of this Action is Necessary**

APPROVED BY *Bradley G. Hill* **BRADLEY G. HILL RECLAMATION SPECIALIST, III** DATE 4/20/98

**\*See Instructions On Reverse Side**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

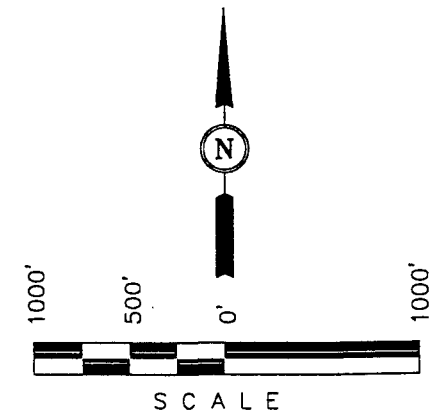
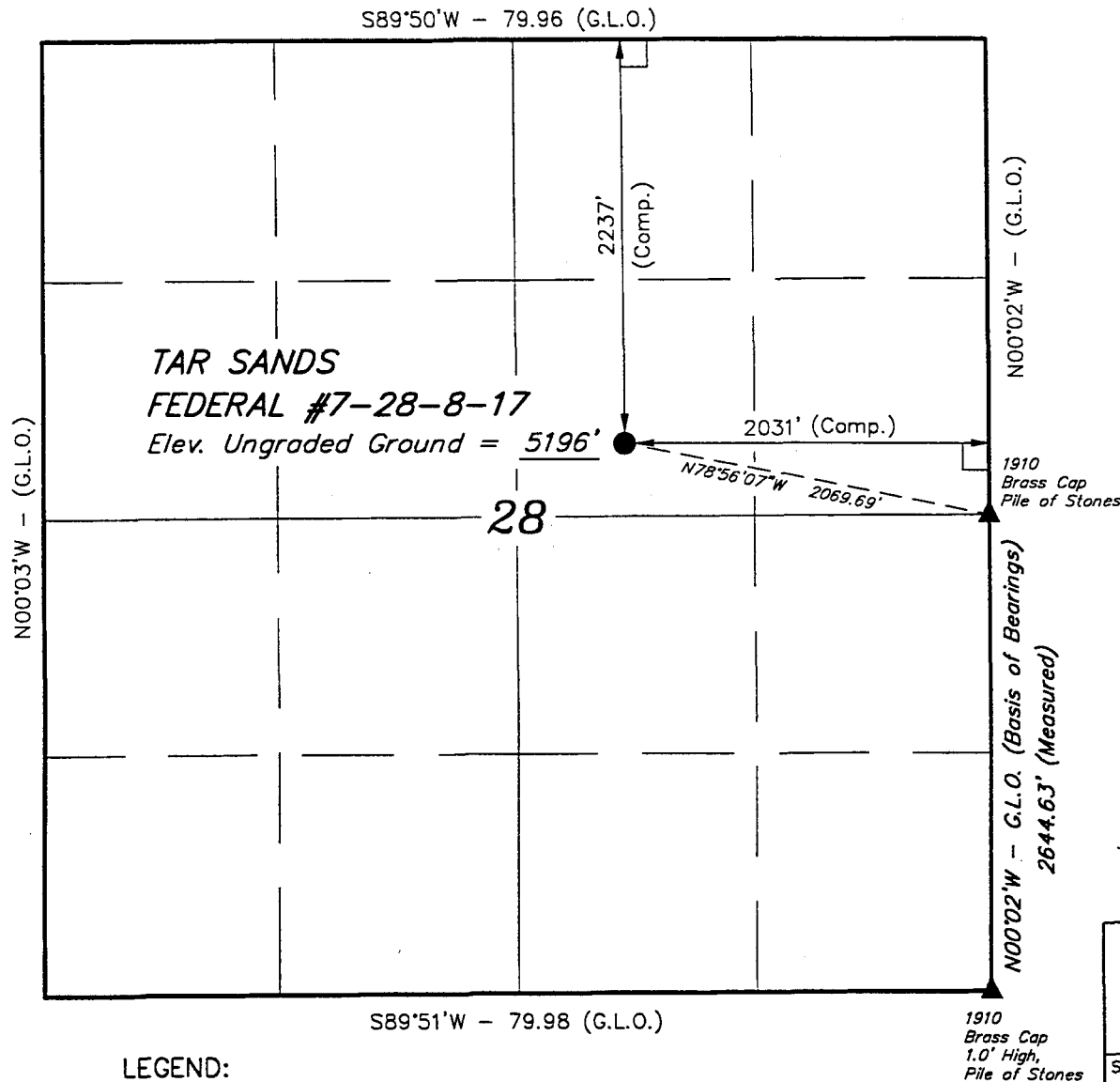
**T8S, R17E, S.L.B.&M.**

**INLAND PRODUCTION CO.**

Well location, TAR SANDS FEDERAL  
#7-28-8-17, located as shown in the SW  
1/4 NE 1/4 of Section 28, T8S, R17E,  
S.L.B.&M. Duchesne County, Utah.

**BASIS OF ELEVATION**

BENCH MARK (M86) LOCATED IN THE SW 1/4 OF SECTION  
29, T8S, R17E, S.L.B.&M. TAKEN FROM THE MYTON SE  
QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD.  
(TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES  
DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY.  
SAID ELEVATION IS MARKED AS BEING 5229 FEET.



**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*Robert L. Hays*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161318  
STATE OF UTAH

**LEGEND:**

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 11-14-97	DATE DRAWN: 2-16-98
PARTY B.B. D.R. D.COX	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE INLAND PRODUCTION CO.	



**INLAND PRODUCTION COMPANY  
TAR SANDS FEDERAL #7-28-8-17  
SW/NE SECTION 28, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 1860'
Green River	1860'
Wasatch	6500'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1860' – 6500' - Oil

**4. PROPOSED CASING PROGRAM**

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Monument Butte Field SOP. See Exhibit "F".

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Monument Butte Field SOP.

**7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Monument Butte Field SOP.

**8. TESTING, LOGGING AND CORING PROGRAMS:**

Please refer to the Monument Butte Field SOP.

**9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered; nor that any other abnormal hazards such as H<sub>2</sub>S will be encountered in this area.

**10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Monument Butte Field SOP.

**INLAND PRODUCTION COMPANY  
TAR SANDS FEDERAL #7-28-8-17  
SW/NE SECTION 29, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Inland Production Company well location site Tar Sands Federal #7-28-8-17 located in the SW 1/4 NE 1/4 Section 28, T8S, R17E, S.L.B. 7 M. Duchesne County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 - 1.5 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southerly along this road 6.3 miles  $\pm$  to its junction with a dirt road to the southeast; continue southeasterly 1.6 miles to its junction with a dirt road to the east; proceed easterly 1.9 to its junction with a dirt road to the southeast; proceed southeasterly 0.4 miles to the beginning of the proposed access road.

**2. PLANNED ACCESS ROAD**

See Topographic Map "B" for the location of the proposed access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "D".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

**6. SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

**7. METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP. See Exhibit "E".

**8. ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. WELL SITE LAYOUT

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s). Refer to Exhibit "E".

10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

11. SURFACE OWNERSHIP - Bureau Of Land Management

12. OTHER ADDITIONAL INFORMATION *Archaeological Survey & Pipeline ROW*

The Archaeological Cultural Resource Survey Report is attached.

Inland Production Company requests that a pipeline ROW be granted to the Tar Sands Federal #7-28-8-17 for a 3" poly fuel gas line, and a 4" poly gas gatherline line. Both lines will be run on surface, adjacent to the existing road-way; the route will follow existing roads where possible. Inland requests that a 30' width for the ROW and an additional 30' width for working surface as necessary. Refer to Topographic Map "C".

13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name: Cheryl Cameron  
Address: P.O. Box 790233 Vernal, Utah 84079  
Telephone: (435) 789-1866

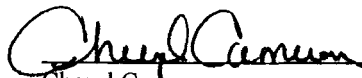
Certification

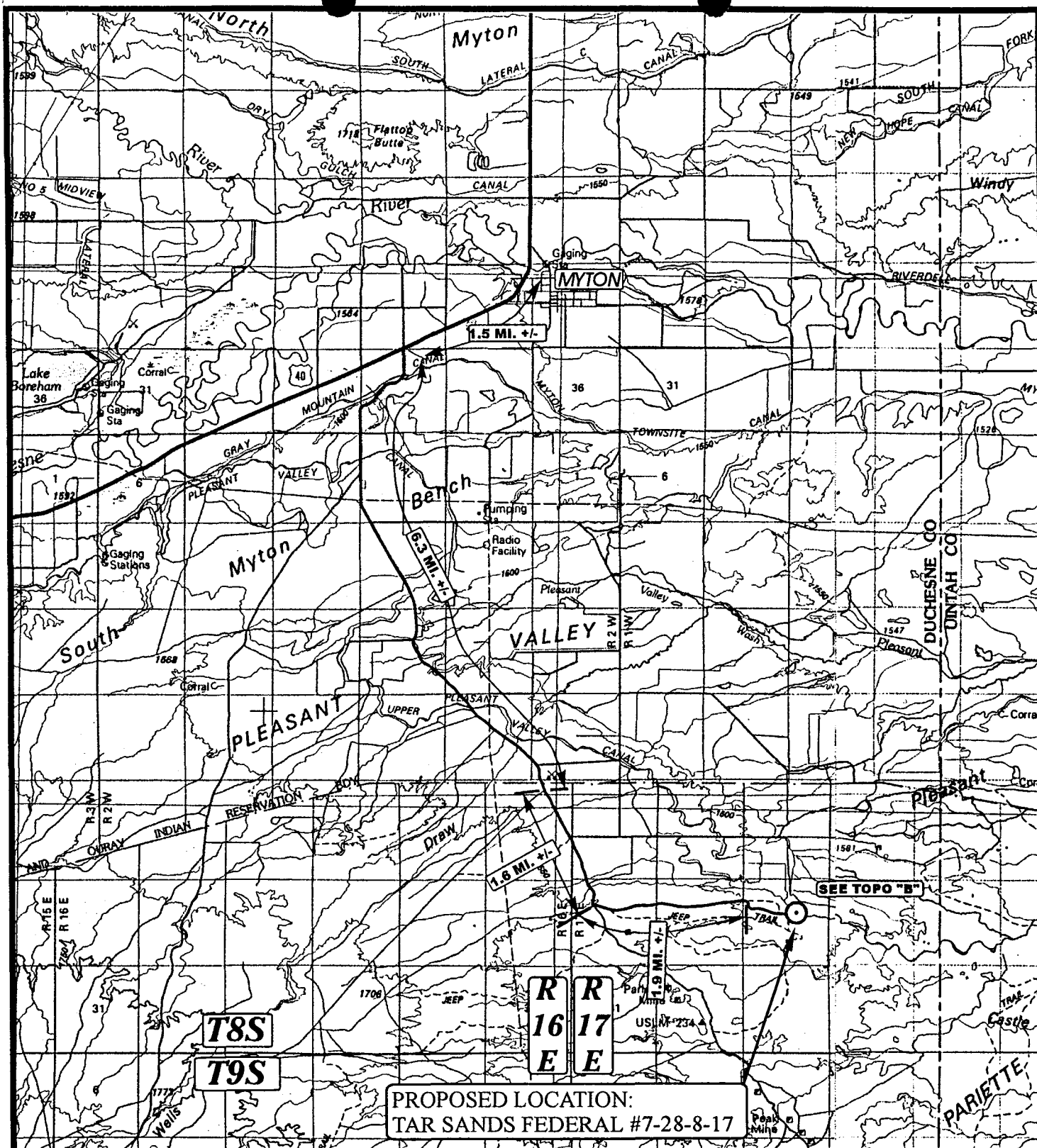
Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of well #7-28-8-17 SW/NE Section 28, Township 8S, Range 17E: Lease U-76241 Duchesne County, Utah; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

3/2/98

Date

  
Cheryl Cameron  
Regulatory Compliance Specialist



# LEGEND:

○ PROPOSED LOCATION



Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



# INLAND PRODUCTION CO.

TAR SANDS FEDERAL #7-28-8-17  
 SECTION 28, T8S, R17E, S.L.B.&M.  
 2237' FNL 2031' FEL

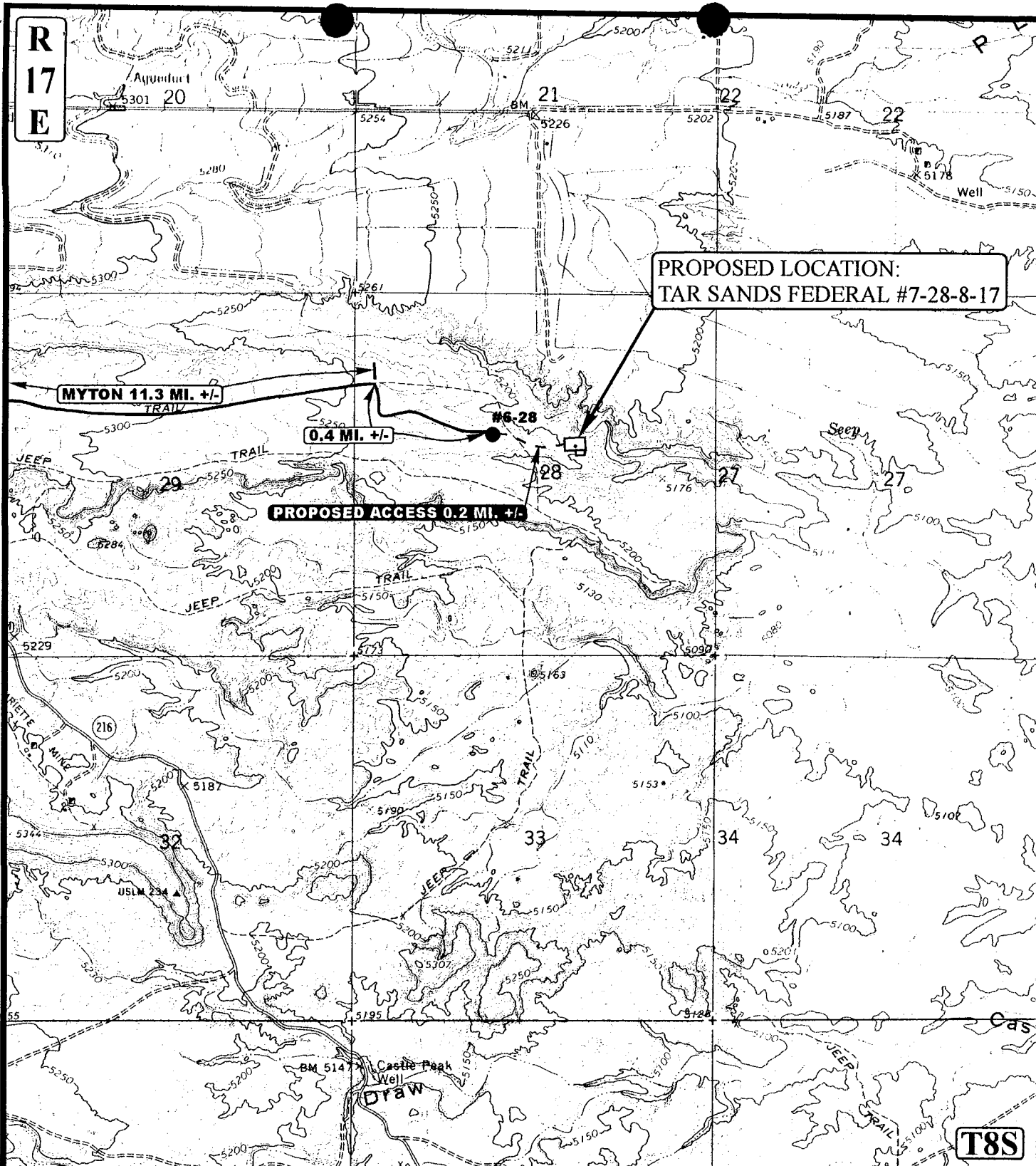
TOPOGRAPHIC  
 MAP

2 12 98  
 MONTH DAY YEAR

SCALE: 1 : 100,000 DRAWN BY: C.G. REVISED: 00-00-00



**R  
17  
E**



**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD



**INLAND PRODUCTION CO.**

**TAR SANDS FEDERAL #7-28-8-17**  
**SECTION 28, T8S, R17E, S.L.B.&M.**  
**2237' FNL 2031' FEL**



**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

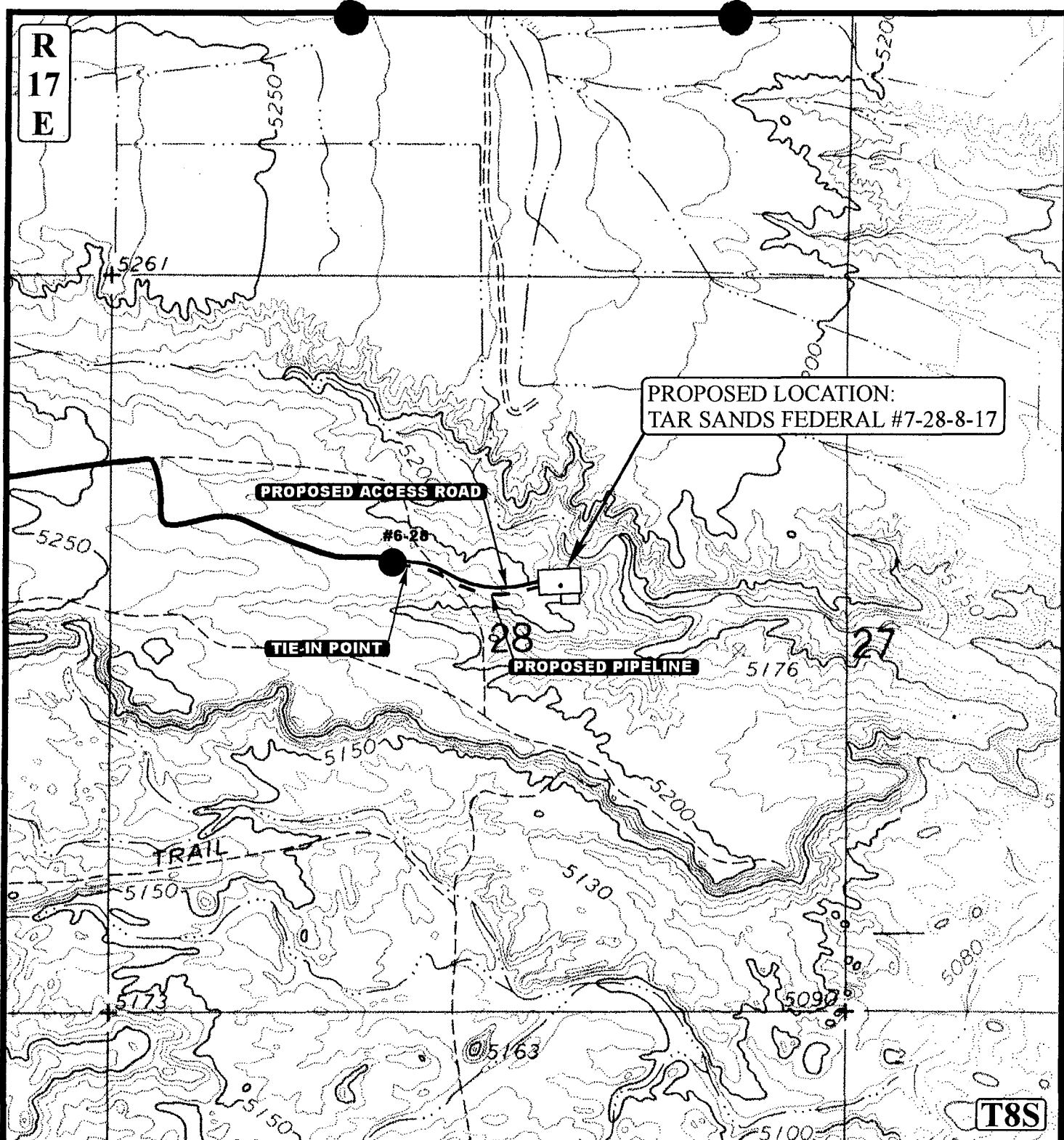
**TOPOGRAPHIC  
MAP**

<b>2</b>	<b>12</b>	<b>98</b>
MONTH	DAY	YEAR

SCALE: 1" = 2000' DRAWN BY: C.G. REVISED: 00-00-00

**T8S**

**B  
TOPO**



APPROXIMATE TOTAL PIPELINE DISTANCE = 1100' +/-

**LEGEND:**

- — — — — EXISTING PIPELINE
- - - - - PROPOSED PIPELINE
- — — — — PROPOSED ACCESS



**INLAND PRODUCTION CO.**

**TAR SANDS FEDERAL #7-28-8-17**  
**SECTION 28, T8S, R17E, S.L.B.&M.**  
**2237' FNL 2031' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
**MAP**

**2 12 98**  
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: C.G. REVISED: 00-00-00





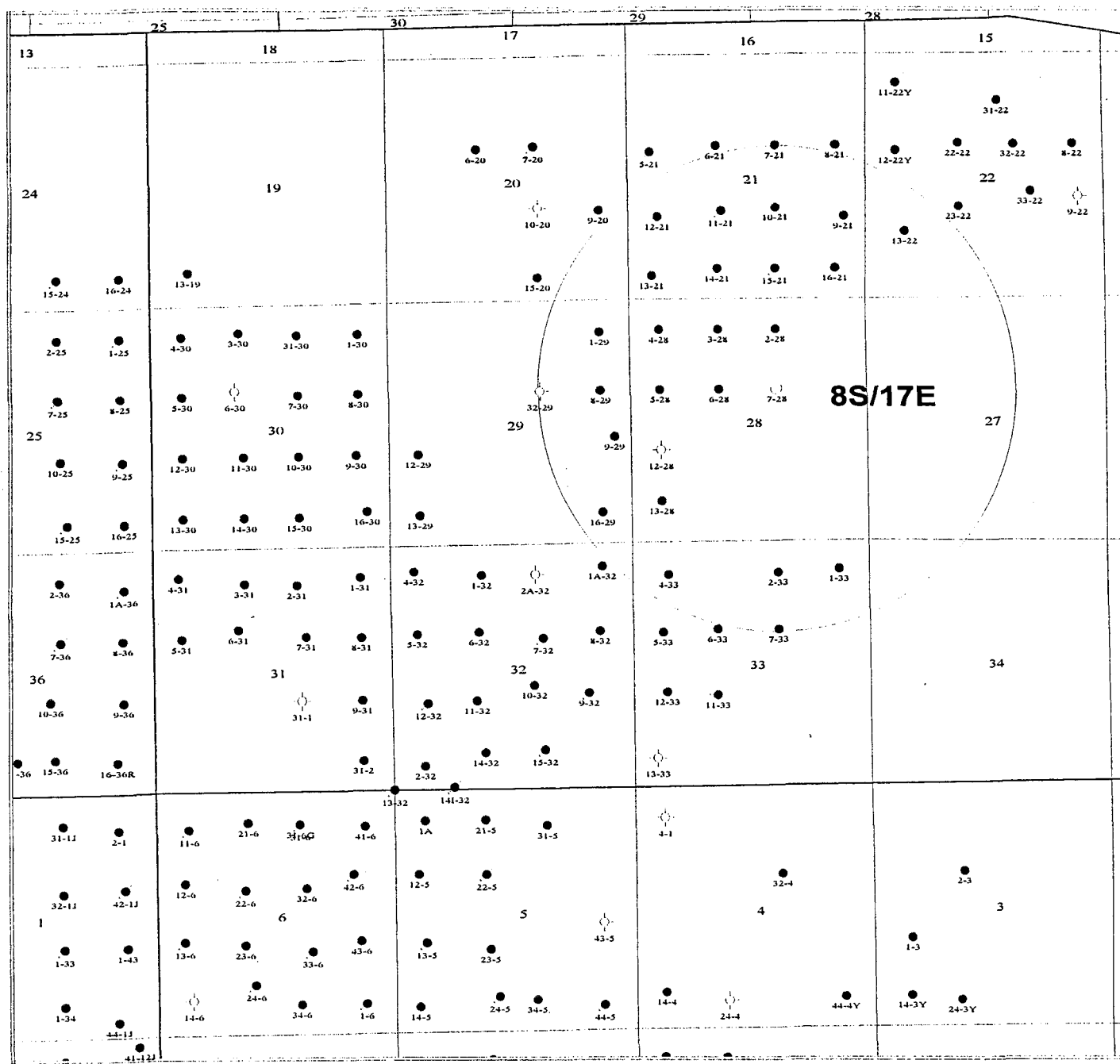
475 17<sup>th</sup> Street Suite 1300  
Denver, Colorado 80202  
Phone: (303)-292-0900

Regional Area

**Duchesne County, Utah**

Date: 4/18/97

JA



# EXHIBIT "D"

INLAND PRODUCTION COMPANY

ONE MILE RADIUS  
Tar Sands Federal #7-28

Jack Atchison

Scale 1:80044.37

2/11/1998

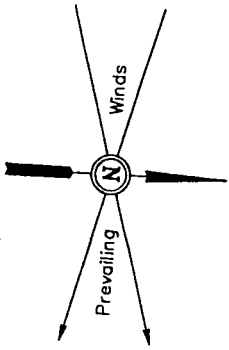


## INLAND PRODUCTION CO.

## LOCATION LAYOUT FOR

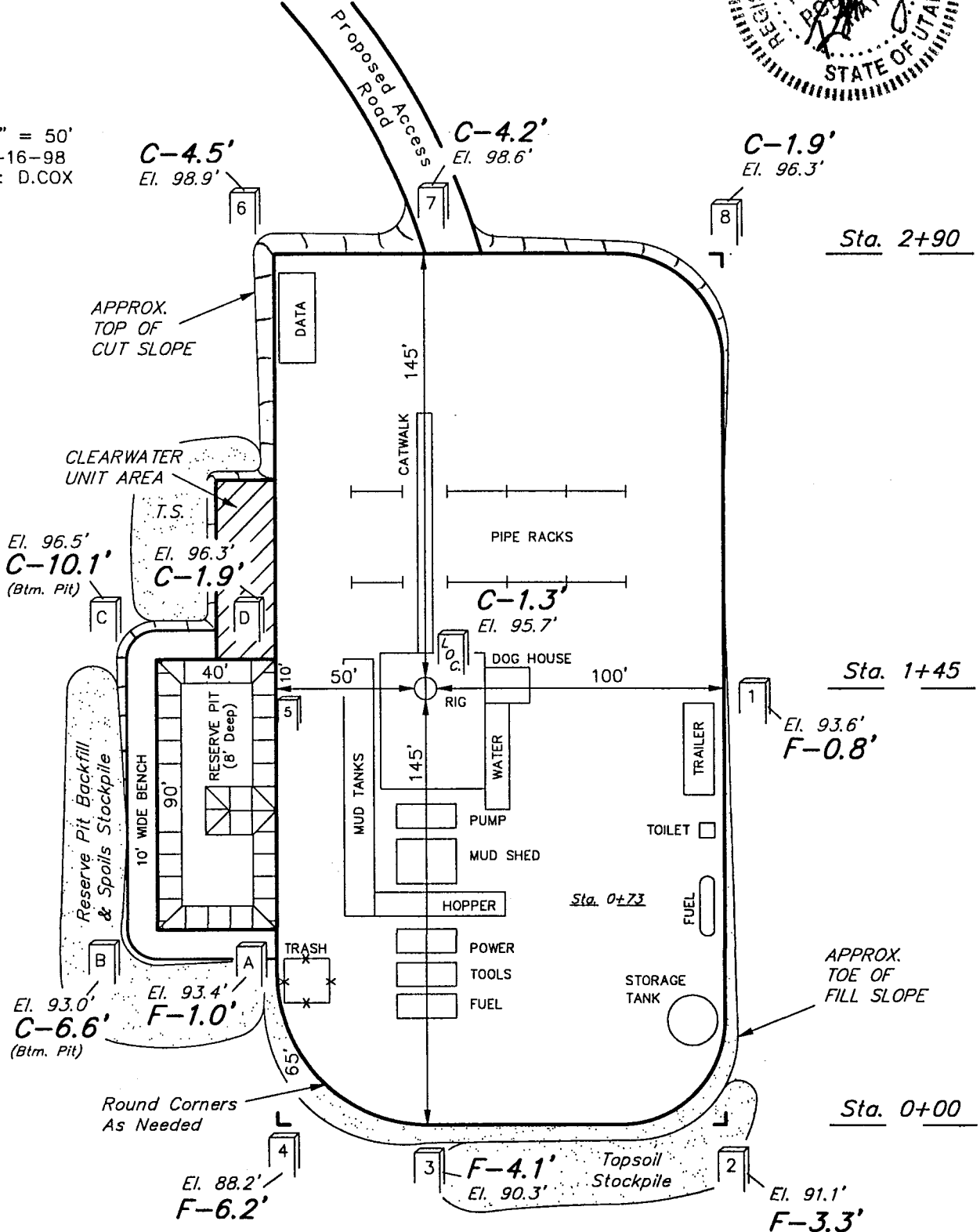
TAR SANDS FEDERAL #7-28-8-17  
SECTION 28, T8S, R17E, S.L.B.&M.

2237' FNL 2031' FEL



SCALE: 1" = 50'  
Date: 2-16-98  
Drawn By: D.COX

NOTE:  
PIT CAPACITY  
WITH 2' OF  
FREEBOARD  
= 2,030 Bbls.



Elev. Ungraded Ground at Location Stake = 5195.7'  
Elev. Graded Ground at Location Stake = 5194.4'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

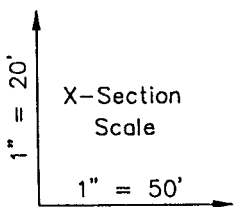
## INLAND PRODUCTION CO.

## TYPICAL CROSS SECTIONS FOR

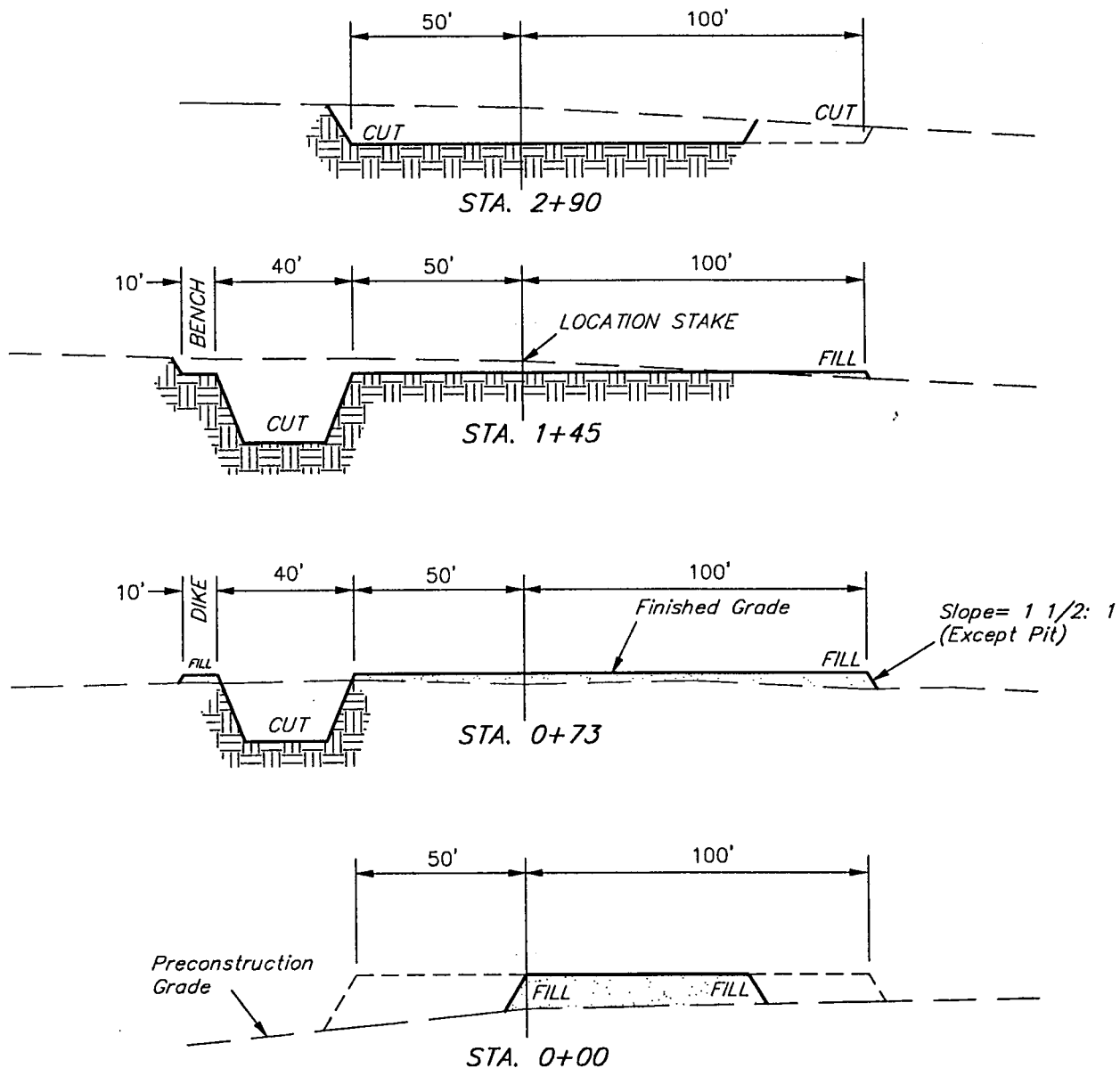
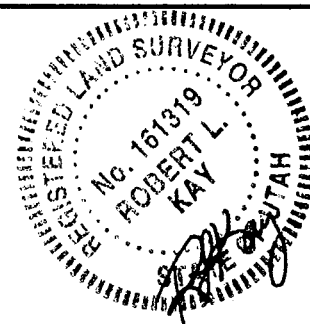
TAR SANDS FEDERAL #7-28-8-17

SECTION 28, T8S, R17E, S.L.B.&amp;M.

2237' FNL 2031' FEL



Date: 2-16-98  
Drawn By: D.COX



## APPROXIMATE YARDAGES

## CUT

(6") Topsoil Stripping = 870 Cu. Yds.

Remaining Location = 2,230 Cu. Yds.

TOTAL CUT = 3,100 CU.YDS.

FILL = 1,810 CU.YDS.

## EXCESS MATERIAL AFTER

5% COMPACTION

= 1,200 Cu. Yds.

Topsoil &amp; Pit Backfill

= 1,200 Cu. Yds.

(1/2 Pit Vol.)

EXCESS MATERIAL After

= 0 Cu. Yds.

Reserve Pit is Backfilled &amp;

Topsoil is Re-distributed

UINTAH ENGINEERING &amp; LAND SURVEYING

85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

Well No.: Tar Sands 7-28-8-17

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Tar Sands 7-28-8-17

API Number:

Lease Number: UTU-76241

Location: SWNE Sec. 28, T8S, R17E

**GENERAL**

Access pad from W, off of existing road.

**CULTURAL RESOURCES**

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

**PALEONTOLOGICAL RESOURCES**

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

**SOILS, WATERSHEDS, AND FLOODPLAINS**

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

**WILDLIFE AND FISHERIES**

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

**BURROWING OWL:** Due to the proximity of the location to active prairie dog towns, there is the potential to encounter nesting burrowing owls between April 1 and July 15. No new construction or surface disturbing activities will be allowed between April 1 and July 15 within a 0.5 mile radius of any active burrowing owl nest.

## **THREATENED, ENDANGERED, AND OTHER SENSITIVE SPECIES**

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61*.

**FERRUGINOUS HAWK:** In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

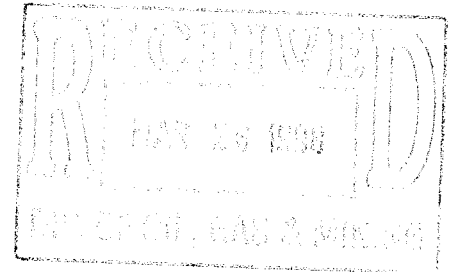
**MOUNTAIN PLOVER:** If new construction or surface disturbing activities are scheduled to occur between March 15 and August 15, detailed surveys of the area within 0.5 mile of the proposed location and within 300 feet of proposed access routes must be conducted to detect the presence of mountain plovers. All surveys must be completed prior to initiating new construction or surface disturbing activities (see Survey Protocol COAs EA Number 1996-61).

## **OTHER**



March 23, 1998

Bureau of Land Management  
Vernal District Office  
170 South 500 East  
Vernal, Utah 84078



**ATTENTION: Ed Forsman**  
**Wayne Bankert**

**RE: Tar Sands Federal Sec. 28 & 29, T8S, R17E**  
**Tar Sands Federal 7-28, 8-28, 9-28, 10-28, 14-28**  
**Tar Sands Federal 2-29, 3-29, 4-29, 5-29, 6-29, 14-29, 15-29**

Gentlemen:

Enclosed are the originals and two copies (each) of the Application For Permit To Drill, for the above referenced locations. Attached to each of the original hard copies, is a copy of the Cultural Resource Block Survey for Sections 28 and 29; the hard copy originals have been previously mailed to Blaine Phillips, for his review.

Please contact me in the Vernal Branch office (801) 789-1866, if you have any questions, or need additional information.

Sincerely,

Cheryl Cameron  
Regulatory Compliance Specialist

State of Utah  
Division of Oil Gas & Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/26/98

API NO. ASSIGNED: 43-013-32069

WELL NAME: TAR SANDS FED 7-28-8-17  
OPERATOR: INLAND PRODUCTION COMPANY (N5160)  
CONTACT: Cheryl Cameron (435) 789-1866

PROPOSED LOCATION:  
SWNE 28 - T08S - R17E  
SURFACE: 2237-FNL-2031-FEL  
BOTTOM: 2237-FNL-2031-FEL  
DUCHESNE COUNTY  
UNDESIGNATED FIELD (002)

LEASE TYPE: FED  
LEASE NUMBER: U-76241  
SURFACE OWNER: BLM

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

PROPOSED FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

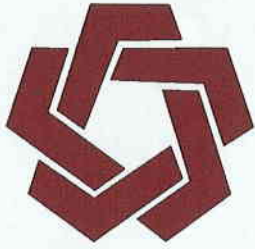
☒ Plat  
☒ Bond: Federal ☒ State ☐ Fee ☐  
(No. #4488944)  
☒ Potash (Y/N)  
☒ Oil Shale (Y/N) \*190-5(B)  
☒ Water Permit  
(No. Johnson Water District)  
☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_)  
N/A St/Fee Surf Agreement (Y/N)

LOCATION AND SITING:

☒ R649-2-3. Unit Greater Boundary  
☐ R649-3-2. General  
☐ R649-3-3. Exception  
☐ Drilling Unit  
Board Cause No: \_\_\_\_\_  
Date: \_\_\_\_\_

COMMENTS: \* Standard Operating Practices (SOP) separate file.  
\* Unit approved 4-8-98, Cause No. 225-2.

STIPULATIONS: ① FEDERAL APPROVAL



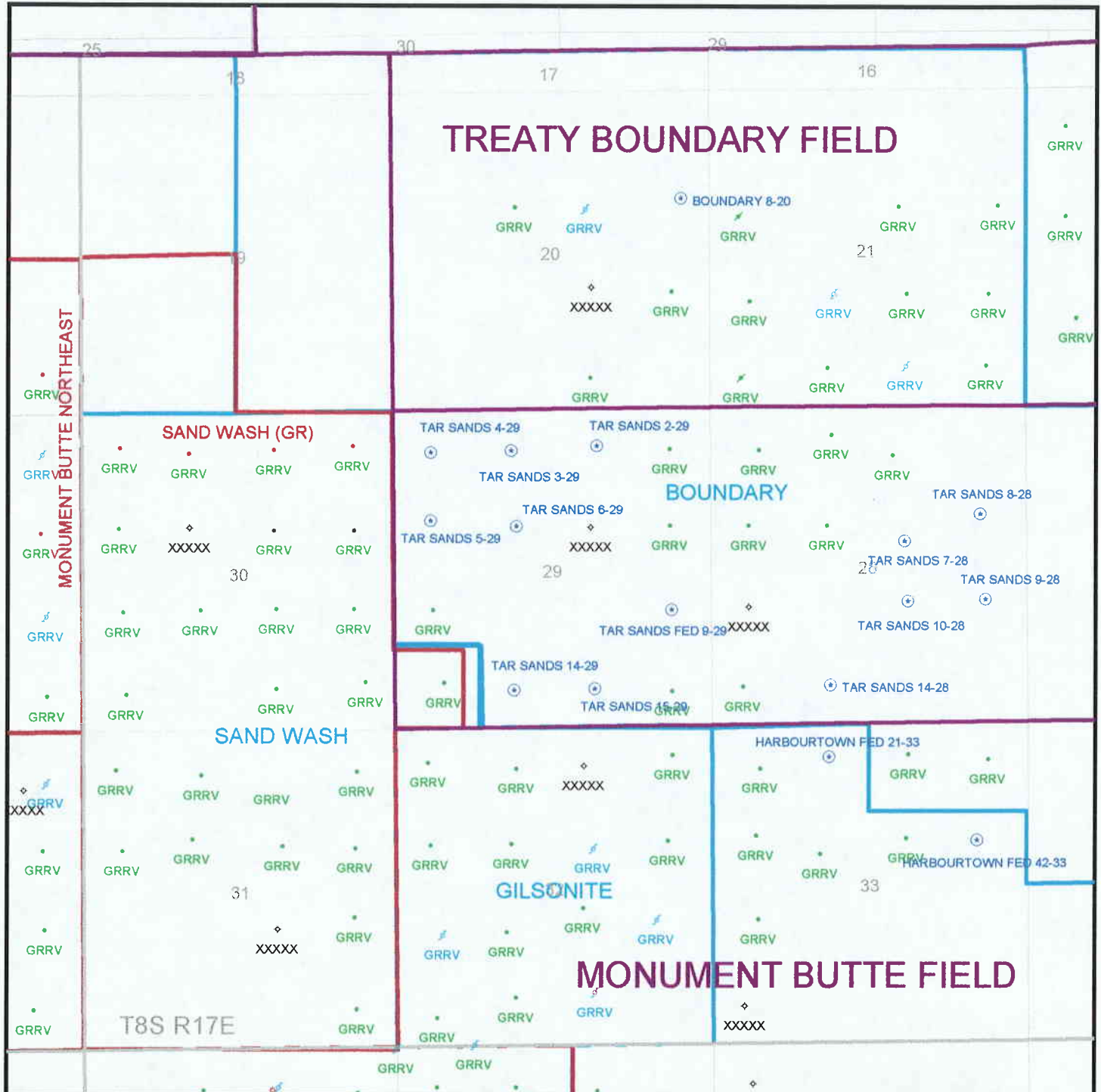
DIVISION OF OIL, GAS & MINING

OPERATOR: INLAND PRODUCTION (N5160)

FIELD: UNDESIGNATED (002)

SEC. 28 & 29, TWP. 8S, RNG. 17E,

COUNTY: DUCHESNE UAC: ~~R649-2-3~~ BOUNDARY SECONDARY <sup>N/A</sup>



DATE PREPARED:  
30-MAR-1998



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

April 20, 1998

Inland Production Company  
P.O. Box 790233  
Vernal, Utah 84079

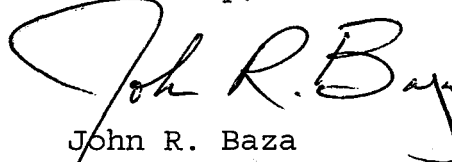
Re: Tar Sands Federal 7-28-8-17 Well, 2237' FNL, 2031' FEL, SW  
NE, Sec. 28, T. 08 S., R. 17 E., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-32069.

Sincerely,

  
John R. Baza  
Associate Director

lwp

Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office



Operator: Inland Production Company  
Well Name & Number: Tar Sands Federal 7-28-8-17  
API Number: 43-013-32069  
Lease: U-76241  
Location: SW NE Sec. 28 T. 08 S. R. 17 E.

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jim Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Dan Jarvis at (801) 538-5338 or John R. Baza at (801)538-5334.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supercede the required federal approval which must be obtained prior to drilling.

(December 1998)

(Other instructions on reverse side)

Budget Bureau No. 1004-0136  
Expires December 31, 1991

DOGMF

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>U-76241</b>	
1b. TYPE OF WELL OIL <input type="checkbox"/> GAS <input type="checkbox"/> SINGLE <input type="checkbox"/> MULTIPLE <input type="checkbox"/> WELL <input checked="" type="checkbox"/> WELL <input type="checkbox"/> OTHER <input type="checkbox"/> ZONE <input type="checkbox"/> ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR <b>Inland Production Company</b>		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR <b>P.O. Box 790233 Vernal, UT 84079</b> <b>Phone: (801) 789-1866</b>		8. FARM OR LEASE NAME <b>Tar Sands Federal</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. *) At Surface <b>SW/NE</b> At proposed Prod. Zone <b>2237' FNL &amp; 2031' FEL</b>		9. WELL NO. <b>#7-28-8-17</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>11.3 Miles southeast of Myton, UT</b>		10. FIELD AND POOL OR WILDCAT <b>Monument Butte</b>	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) <b>2031'</b>	16. NO. OF ACRES IN LEASE <b>2520</b>	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 28, T8S, R17E</b>	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.	19. PROPOSED DEPTH <b>6500'</b>	12. County <b>Duchesne</b>	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5194.4' GR</b>	20. ROTARY OR CABLE TOOLS <b>Rotary</b>	13. STATE <b>UT</b>	
22. APPROX. DATE WORK WILL START* <b>3rd Quarter 1998</b>			
23. PROPOSED CASING AND CEMENTING PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH
Refer to Monument Butte Field SOP's Drilling Program/Casing Design			

**Inland Production Company proposes to drill this well in accordance with the attached exhibits, "A" through "E".**

**The Conditions of Approval are attached.**

**RECEIVED  
MAR 26 1998**

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone.

If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. *Cheryl Cameron* **Regulatory**  
SIGNED *Cheryl Cameron* TITLE **Compliance Specialist** DATE **3/2/98**  
**Cheryl Cameron**

(This space for Federal or State office use)

PERMIT NO. **NOTICE OF APPROVAL** APPROVAL DATE

**CONDITIONS OF APPROVAL  
TO OPERATOR'S COPY**

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY *Greg Fenzler* **ACTING** Assistant Field Manager  
TITLE **Mineral Resources** DATE **APR 27 1998**

**\*See Instructions On Reverse Side**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**RECEIVED  
APR 30 1998  
DIV. OF OIL, GAS & MINING**

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Tar Sands Fed. 7-28-8-17

API Number: 43-013-32069

Lease Number: U-76241

Location: SWNE Sec. 028 T. 08S R. 17E

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

**SURFACE USE PROGRAM**  
Conditions of Approval (COA)  
Inland Production Company - Well #7-28-8-17

**Well Site Layout**

This location is immediately south of a perennial drainage. When constructing the location, fill material shall not enter the drainage or its associated riparian habitat.

**Location Reclamation**

The following seed mixture will be used on the stock piled topsoil, reclamation of the reserve pit, and for final reclamation: (All poundages are in Pure Live Seed)

needle and threadgrass	Stipa comata	3 lbs/acre
sand dropseed	Sporobolus cryptandrus	3 lbs/acre
fourwing saltbush	Atriplex canescens	4 lbs/acre
indian ricegrass	Oryzopsis hymenoides	2 lbs/acre

The location topsoil pile shall be seeded immediately after site construction by broadcasting the seed, then walking the topsoil pile with the dozer to plant the seed.

The reserve pit shall have a small amount of topsoil stock piled near by as shown on the cut sheet to be used to spread over the reserve pit area at the time the reserve pit is reclaimed.

Once the reserve pit is dry, it shall be filled, recontoured, topsoil spread, and seeded in the same manner discussed above.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: INLAND PRODUCTION CO

Well Name: TAR SANDS FEDERAL 7-28-8-17

Api No. 43-013-32069

Section 28 Township 8S Range 17E County DUCHESNE

Drilling Contractor

Rig #

SPUDDED:

Date 6/22/98

Time

How DRY HOLE

Drilling will commence

Reported by MIKE WARD

Telephone #

Date: 6/29/98 Signed: JLT

1

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
DRILLING INSPECTION FORM

OPERATOR: INLAND PRODUCTION CO COMPANY REP: MIKE WARD

WELL NAME TAR SAND FEDERAL #7-28-8-17 API NO 43-013-32069

QTR/QTR: SW/NE SECTION: 28 TWP: 8S RANGE: 17E

CONTRACTOR: BIG ~~BA~~ DRILLING CO RIG NUMBER: #46

INSPECTOR: DENNIS L. INGRAM TIME: 9:50 AM DATE: 7/6/98  
SPUD DATE: DRY: \_\_\_\_\_ ROTARY: 7/2/98 PROJECTED T.D.: 6200'

OPERATIONS AT TIME OF VISIT: DRILLING AHEAD AT 5307 FEET WITH  
MUD MOTOR AND DAP.

WELL SIGN: Y MUD WEIGHT 8.4 LBS/GAL BOPE: Y

BLOOIE LINE: Y FLARE PIT: N H2S POTENTIAL: N

ENVIRONMENTAL:

RESERVE PIT: Y FENCED: Y LINED: N PLASTIC: N  
RUBBER: \_\_\_\_\_ BENTONITE: \_\_\_\_\_ SANITATION: (2)

BOPE TEST RECORDED IN THE RIG DAILY TOUR BOOK: NO TEST CHART  
POSTED. 1200 PSI ON ACCUMULATOR. (BOOK SHOWS TESTED BOPE  
7/2/98)

REMARKS:

(LAST WELL WAS TSF #3-29, T.D. ON 7/1/98 AT 6300' AND RAN 5  
½" PRODUCTION CASING, PLUG DOWN AT 10:00 PM). RATHOLE RIG HAS  
PRESET APPROXIMATELY 300 FEET OF 8 5/8" SURFACE PIPE BEFORE RIG  
CAME IN. PRODUCTION CASING IS ALREADY ON PIPE RACKS. APD IS  
DISPLAYED IN DOGHOUSE, PIT ON SOUTHEAST CORNER AS STIPULATED  
IN SAME. DRY WASH IMMEDIATELY NORTH OF LOCATION, NO WATER AT  
SURFACE. SURVEYS SHOW 1 ½ AT 5029'; 1 ¾ AT 4031'; AND 2 ½ AT  
2881'.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**U-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**TAR SANDS FEDERAL 7-28-8-17**

9. API Well No.

**43-013-32069**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil  
Well

☐ Gas  
Well

☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**2237 FNL 2031 FEL**

**SW/NE Section 28, T08S R17E**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**

☐

Notice of Intent

☒

Subsequent Report

☐

Final Abandonment Notice

**TYPE OF ACTION**

☐

Abandonment

☐

Recompletion

☐

Plugging Back

☐

Casing Repair

☐

Altering Casing

☒

Other

Weekly Status

☐

Change of Plans

☐

New Construction

☐

Non-Routine Fracturing

☐

Water Shut-Off

☐

Conversion to Injection

☐

Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR THE PERIOD OF 7/2/98 - 7/8/98**

Drilled 7-7/8" hole w/Big A #46 from 317' - 6200'.

MIRU. NU. Test BOP's. PU BHA. Drl plug, cmt & GS. Spud rotary rig @ 6:45 pm, 7/2/98. Run 5-1/2" GS, 1 jt 5-1/2 csg (43'), 5-1/2" FC, 145 jt 5-1/2", 15.5#, J-55, LT & C csg (6165'). Csg set @ 6176'. RD Casers. RU BJ. C&C. Pmp 20 bbl dye wtr & 20 bbl gel. Cmt w/360 sx Premium Lite Modified (11.0 ppg 3.42 cf/sk yield) & 400 sx Class "G" w/10% A-10 and 10% salt (14.4 ppg 1.63 cf/sk yield). Had good returns until 95 bbl displaced, then lost 90% returns. Slowed displacement rate from 7 to 4-1/2 BPM & regained 60% returns. Lost all returns w/120 bbls displaced (146 bbl total displacement). POB w/2100 psi, 2:30 am, 7/8/98. RD BJ. ND BOP's. Set slips w/85,000#, dump & clean pits. RD. Rig released @ 6:30 am, 7/8/98. RDMOL.

14. I hereby certify that the foregoing is true and correct

Signed

Shannon Smith

Title

Engineering Secretary

Date

7/15/98

(This space for Federal or State office use)

Approved by

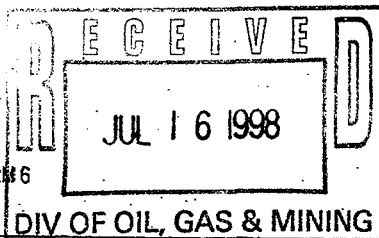
Title

Date

Conditions of approval, if any:

**CC: UTAH DOGM**

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6



OPERATOR Inland Production Company  
ADDRESS 410 17th St., Suite 700  
Denver, Colorado 80202

OPERATOR ACCT. NO. N 5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12391	43-013-32066	TAR SANDS FED. 10-28-8-17	NW/SE	28	08S	17E	Duchesne	6/24/98	

WELL 1 COMMENTS: Spud well w/ 2cm Drilling @ 10:00 am, 6/24/98.  
Greater Boundary Unit

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12391	43-013-32067	TAR SANDS FED. 9-28-8-17	NW/SE	28	08S	17E	Duchesne	6/25/98	

WELL 2 COMMENTS: Spud well w/ 2cm Drilling @ 1:30 pm, 6/25/98.  
Greater Boundary Unit

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12420	43-047-33076	ODELARK SPRING 13-36-8-17	SW/SE	36	08S	17E	Uintah	7/1/98	

WELL 3 COMMENTS: Spud well w/ Union Rig #7 @ 2:00 pm, 7/1/98.  
Entity added 7-17-98. See

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12391	43-013-32065	TAR SANDS FED. 14-28-8-17	SE/SW	28	08S	17E	Duchesne	6/30/98	

WELL 4 COMMENTS: Spud well w/ 2cm Drilling @ 11:00 AM, 6/30/98.  
Greater Boundary Unit

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12421	43-047-33075	ODELARK SPRING 14-36-8-17	SE/SW	36	08S	17E	Uintah	7/1/98	

WELL 5 COMMENTS: Spud well w/ Union #7 @ 1:00 pm, 7/1/98.  
Entity added 7-17-98. See

ON CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

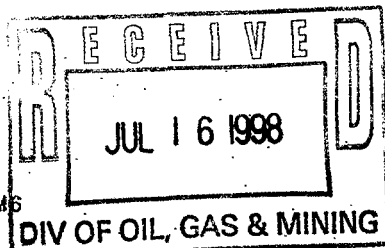
Shannon Smith  
Signature

Engineering Secretary 7/15/98  
Title Date



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 5



OPERATOR Inland Production Company  
ADDRESS 410 17th St., Suite 700  
Denver, Colorado 80202

OPERATOR ACCT. NO. N 5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12391	43-013-32069	Tar Sands Fed 7-28-8-17	NE/W	28	08S	17E	Duchesne	6/22/98	

WELL 1 COMMENTS: Spud well w/ zcm drilling @ 9:00 am, 6/22/98.  
Greater Boundary Unit

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12422	43-047-33078	ODEKER SPRING 7-36-8-17	SW/W	36	08S	17E	Utah	6/15/98	

WELL 2 COMMENTS: Spud well w/ Union, Rig #7 @ 11:30 am, 6/15/98.  
Entity added 7-17-98. Lec

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12391	43-013-32063	TAR SANDS FED 3-29-8-17	NE/W	29	08S	17E	Duchesne	6/15/98	

WELL 3 COMMENTS: Spud well w/ zcm Drilling @ 11:00 am, 6/15/98.  
Greater Boundary Unit

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12423	43-047-33077	ODEKER SPRING 11-36-8-17	NE/SW	36	08S	17E	Utah	6/23/98	

WELL 4 COMMENTS: Spud well w/ Union #7 @ 11:00 am, 6/23/98.  
Entity added 7-17-98. Lec

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		

WELL 5 COMMENTS:

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Shannon Smith  
Signature

Engineering Secretary 7/15/98  
Title Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**U-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**TAR SANDS FEDERAL 7-28-8-17**

9. API Well No.

**43-013-32069**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**2237 FNL 2031 FEL SW/NE Section 28, T08S R17E**

12. **CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**TYPE OF SUBMISSION**

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

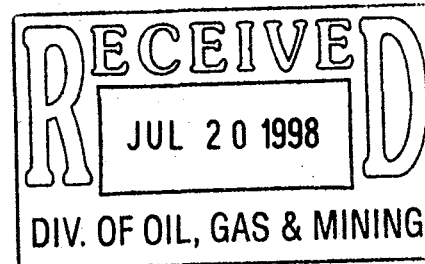
☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Surface Spud**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

RU ZCM. Drl 12-1/4" hole to 315'. C&C. **SPUD WELL @ 9:00 AM, 6/22/98**. LD DP & hammer. Run 8-5/8" GS, 7 jt 8-5/8" 24# J-55 ST&C csg (292.33'). Csg set @ 292.83'. RU BJ. Pmp 20 bbl dye wtr & 20 bbl gel. Cmt w/120 sx Class "G" w/2% gel, 2% CaCl2, 1/4#/sk CelloFlake (14.8 ppg, 1.35 cf/sk yield). Had 4-1/2 bbl cmt returns. RD BJ. Drl RH & MH. RDMOL.



14. I hereby certify that the foregoing is true and correct

Signed Shannon Smith Title Engineering Secretary Date 7/15/98

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

**CC: UTAH DOGM**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**2237 FNL 2031 FEL SW/NE Section 28, T08S R17E**

5. Lease Designation and Serial No.

**U-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**TAR SANDS FEDERAL 7-28-8-17**

9. API Well No.

**43-013-32069**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Weekly Status

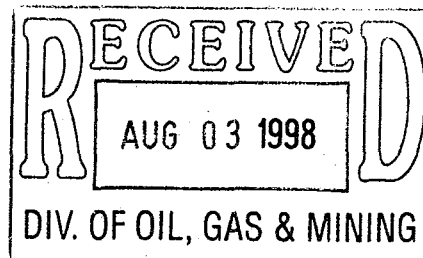
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR THE PERIOD OF 7/23/98 - 7/29/98**

Perf CP sds @ 5904-06', 5924-32' & 5999-6003'.



14. I hereby certify that the foregoing is true and correct

Signed

Shannon Smith

Title

Engineering Secretary

Date

7/30/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

**CC: UTAH DOGM**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**2237 FNL 2031 FEL SW/NE Section 28, T08S R17E**

5. Lease Designation and Serial No.

**U-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**TAR SANDS FEDERAL 7-28-8-17**

9. API Well No.

**43-013-32069**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Weekly Status

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

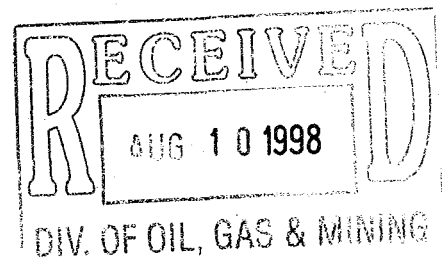
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR THE PERIOD OF 7/30/98 - 8/5/98**

Perf C sds @ 5232-46'.

Perf D sds @ 5052-61'.

Perf GB sds @ 4546-55' & 4592-96'.



14. I hereby certify that the foregoing is true and correct

Signed

Sharon Smith

Title

Engineering Secretary

Date

8/6/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

**CC: UTAH DOGM**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**U-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**TAR SANDS FEDERAL 7-28-8-17**

9. API Well No.

**43-013-32069**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**2237 FNL 2031 FEL SW/NE Section 28, T08S R17E**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Weekly Status**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR THE PERIOD OF 8/6/98 - 8/12/98**

Swab well. Trip production tbg.  
Place well on production @ 12:30 pm, 8/8/98.

**OIL AND GAS**

JRB	
RJK	
SLS	
GLH	
DTS	
1-KM14	✓
2-CHP	✓
3-CPW	✓
MICROFILM	
FILE	

*del*

14. I hereby certify that the foregoing is true and correct

Signed Shannon Smith Title Engineering

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

**CC: UTAH DOGM**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**U-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**TAR SANDS FEDERAL 7-28-8-17**

9. API Well No.

**43-013-32069**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒

Oil  
Well

☐

Gas  
Well

☐

Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**2237 FNL 2031 FEL**

**SW/NE Section 28, T08S R17E**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**

☐

Notice of Intent

☒

Subsequent Report

☐

Final Abandonment Notice

**TYPE OF ACTION**

☐

Abandonment

☐

Recompletion

☐

Plugging Back

☐

Casing Repair

☐

Altering Casing

☒

Other

Weekly Status

☐

Change of Plans

☐

New Construction

☐

Non-Routine Fracturing

☐

Water Shut-Off

☐

Conversion to Injection

☐

Dispose Water

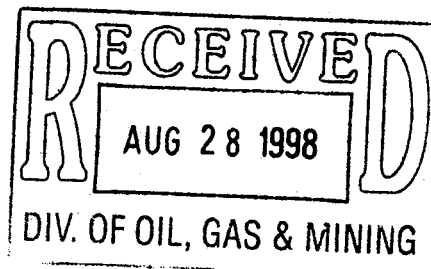
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR THE PERIOD OF 8/6/98 - 8/12/98**

Swab well. Trip production tbq.

Place well on production @ 12:30 pm, 8/8/98.



14. I hereby certify that the foregoing is true and correct

Signed

Shannon Smith

Title

Engineering Secretary

Date

8/14/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

**CC: UTAH DOGM**

(June 1990)

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

**SUBMIT IN TRIPLICATE**

## 1. Type of Well

☒ Oil Well    ☐ Gas Well    ☐ Other

## 2. Name of Operator

**INLAND PRODUCTION COMPANY**

## 3. Address and Telephone No.

**P O BOX 790233 VERNAL, UT 84079 (435) 789-1866**

## 4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**2237' FNL & 2031' FEL SW/NE SEC 28, T8S, R17E**

## 5. Lease Designation and Serial No.

**U-76241**

## 6. If Indian, Allottee or Tribe Name

**NA**

## 7. If Unit or CA, Agreement Designation

## 8. Well Name and No.

**TAR SANDS FEDERAL 7-28-8-17**

## 9. API Well No.

**43-013-32069**

## 10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

## 11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

## 12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

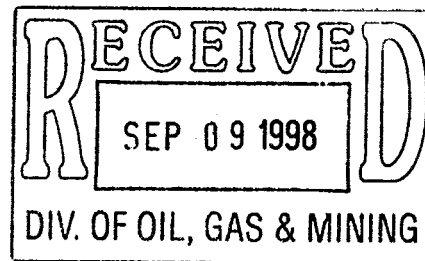
☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Reserve Pit Reclamation**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

## 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The reserve pit has been backfilled and the topsoil has been spread over the rehabilitated area, in accordance with the Surface Use Program on August 21, 1998. The reserve pit and topsoil stockpile have been seeded per BLM requirements.



## 14. I hereby certify that the foregoing is true and correct

Signed

*Cheryl Cameron*  
Cheryl Cameron

Title

**Regulatory Specialist**

Date

**9/8/98**

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

**CC: UTAH DOGM**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

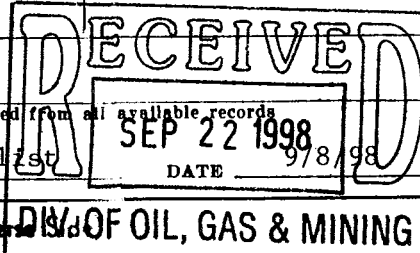
(See other In-  
structions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL:		OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	Other _____		
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other _____
2. NAME OF OPERATOR						7. UNIT AGREEMENT NAME	
Inland Production Company						Greater Boundary Unit	
3. ADDRESS OF OPERATOR						UTU-77098X	
P.O. Box 790233 Vernal, UT 84079 (435) 789-1866						8. FARM OR LEASE NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*						Tar Sands Federal	
At surface SW/NE						9. WELL NO.	
At top prod. interval reported below 2237' FNL & 2031' FEL						#7-28-8-17	
At total depth						10. FIELD AND POOL, OR WILDCAT	
						Monument Butte	
14. PERMIT NO. 43-013-32069						12. COUNTY OR PARISH Duchesne	
DATE ISSUED 4/27/98						13. STATE UT	
15. DATE SPUDDED 6/22/98		16. DATE T.D. REACHED 7/7/98		17. DATE COMPL. (Ready to prod.) 8/8/98		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5194.4' GR	
19. ELEV. CASINGHEAD		20. TOTAL DEPTH, MD & TVD 6200'		21. PLUG, BACK T.D., MD & TVD 6127'		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*		25. WAS DIRECTIONAL SURVEY MADE		26. TYPE ELECTRIC AND OTHER LOGS RUN	
Rotary Tools X		Green River - Refer to Item #31		No		27. WAS WELL CORRED	
Cable Tools		Digl/SP/GR/CAL - CN/CD/GR - CBL 9-92-98		No			
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
8 5/8		24#		292.83'		12 1/4	
5 1/2		15.5#		6176'		7 7/8	
29. LINER RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
30. TUBING RECORD							
SIZE		DEPTH SET (MD)		PACKER SET (MD)			
2 7/8		EOT @ 6051'		TA @ 5883'			
31. PERFORATION RECORD (Interval, size and number)							
CP 5904'-06', 5924'-32', 5999'-6003'							
C 5232'-46'							
D 5052'-61'							
GB 4546'-55', 4592'-96'							
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
Refer to Item				#37			
33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
8/8/98		Pumping 2 1/2" X 1 1/2" X 16' RHAC pump				Producing	
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD	
10 Day Avg		8/98		N/A		OIL—BBL. 112	
						GAS—MCF. 196	
						WATER—BBL. 12	
						GAS-OIL RATIO 1.8	
FLOW, TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)							
Sold & Used for Fuel							
35. LIST OF ATTACHMENTS							
Logs in Item #26							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED Cheryl Cameron		TITLE Regulatory Specialist					
DATE 9/8/98		DATE 9/8/98					

\*(See Instructions and Spaces for Additional Data on Reverse Side)





37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Garden Gulch	4058'		#32.			
Garden Gulch 2	4365'		Perf CP sd 5904'-06', 5924'-32', 5999'-6003'			
Point 3	4654'		Frac w/ 110,000# 20/40 sd in 564 bbls			
X Marker	4874'		Viking 1-25 fluid			
Y Marker	4908'					
Douglas Creek	5039'		Perf C sd 5232'-46'			
Bi-Carb	5232'		Frac w/ 104,500# 20/40 sd in 531 bbls			
B-Lime	5472'		Viking 1-25 fluid			
Castle Peak	5882'					
Basal Carb	NDE		Perf D sd 5052'-61'			
			Frac w/ 93,700# 20/40 sd in 500 bbls			
			Viking 1-25 fluid			
			Perf GB sd 4546'-55', 4592'-96'			
			Frac w/ 104,500# 20/40 sd in 513 bbls			
			Viking 1-25 fluid			



July 26, 1999

Mr. Dan Jarvis  
State of Utah  
Division of Oil, Gas and Mining  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well  
Tar Sands #7-28-8-17  
Monument Butte Field, Boundary Unit, Lease #UTU-76241  
Section 28-Township 8S-Range 17E  
Duchesne County, Utah

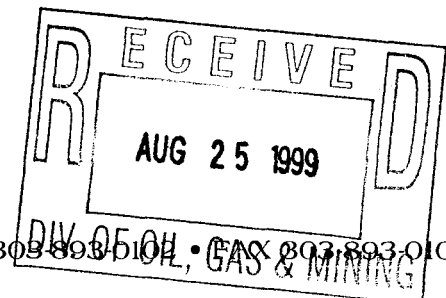
Dear Mr. Jarvis:

Inland Production Company herein requests approval to convert the Tar Sands #7-28-8-17 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact Jon Holst at (303) 893-0102.

Sincerely,

John E. Dyer  
Chief Operating Officer



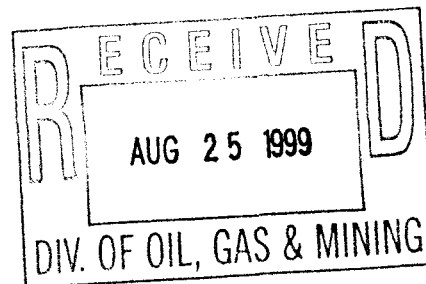
**INLAND PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**TAR SANDS #7-28-8-17**  
**ASHLEY UNIT**  
**MONUMENT BUTTE (GREEN RIVER) FIELD**  
**LEASE #UTU-76241**  
**JULY 26, 1999**

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COVER PAGE	
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COMPLETED RULE R615-5-2 QUESTIONNAIRE	
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ATTACHMENT E	WELLBORE DIAGRAM – TAR SANDS #7-28-8-17
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ATTACHMENT H	WORK PROCEDURE FOR PROPOSED PLUGGING AND ABANDONMENT
ATTACHMENT H-1	WELLBORE DIAGRAM OF PROPOSED PLUGGED WELL

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1



OPERATOR Inland Production Company  
ADDRESS 410 17th Street, Suite 700  
Denver, Colorado 80202

Well Name and number: Tar Sands #7-28-8-17  
Field or Unit name: Monument Butte (Green River) Boundary Unit Lease No. UTU-76241  
Well Location: QQ SWNE section 28 township 8S range 17E county Duchesne

Is this application for expansion of an existing project? ..... Yes ☒ No ☐

Will the proposed well be used for: Enhanced Recovery? ..... Yes ☒ No ☐  
Disposal? ..... Yes ☐ No ☒  
Storage? ..... Yes ☐ No ☒

Is this application for a new well to be drilled? ..... Yes ☐ No ☒

If this application is for an existing well,  
has a casing test been performed on the well? ..... Yes ☒ No ☐

Date of test: 7/27/98

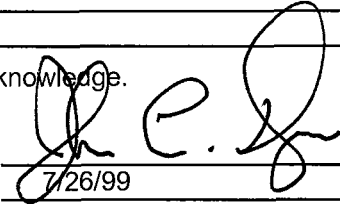
API number: 43-013-32069

Proposed injection interval: from 4546' to 6003'  
Proposed maximum injectic rate 500 bpd pressure 1822 psig  
Proposed injection zone contains ☒ oil, ☐ gas, and/or ☐ fresh water within 1/2  
mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should  
accompany this form.

List of Attachments: Attachments "A" through "H"

I certify that this report is true and complete to the best of my knowledge.

Name: John E. Dyer Signature   
Title Chief Operating Officer Date 7/26/99  
Phone No. (303) 893-0102

(State use only)

Application approved by \_\_\_\_\_ Title \_\_\_\_\_  
Approval Date \_\_\_\_\_

Comments:

# Tar Sands Federal #7-28

Spud Date: 6/22/98  
Put on Production: 8/8/98  
GL: 5196' KB: 5206'

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (292.33')  
DEPTH LANDED: 292.83' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Class G cmt, est 4.5 bbls to surf.

## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 145 jts. (6165')  
DEPTH LANDED: 6176' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 360 sxs Premium Lite mixed & 400 sxs Class G  
CEMENT TOP AT: Surface per CBL

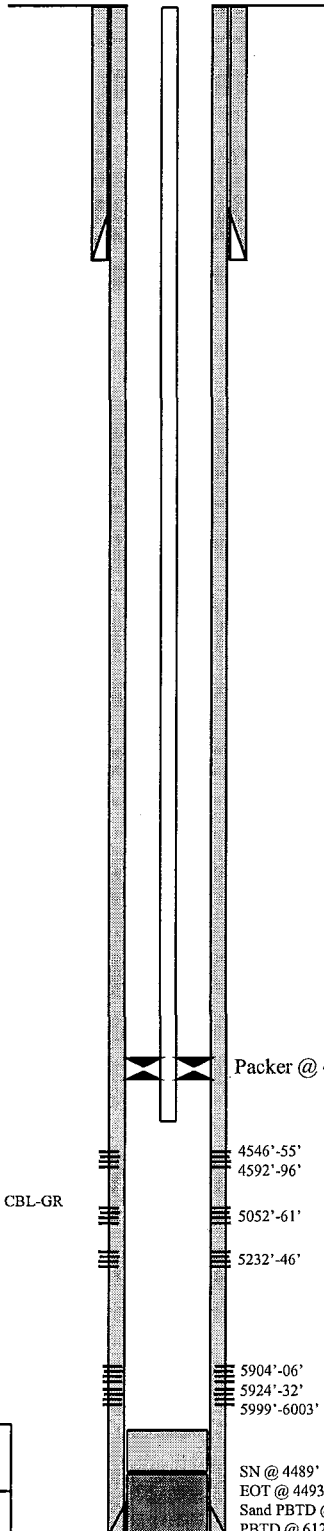
## TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 139 jts  
PACKER: 4491'  
SEATING NIPPLE: 2-7/8" (1.10')  
TOTAL STRING LENGTH: EOT @ 4493'  
SN LANDED AT: 4489'

## SUCKER RODS

POLISHED ROD:  
SUCKER RODS:  
PUMP SIZE:  
STROKE LENGTH:  
PUMP SPEED, SPM:  
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

## Proposed Injection Wellbore Diagram



Initial Production: 112 BOPD,  
196 MCFPD, 12 BWPD

## FRAC JOB

7/29/98	5904'-6003'	<b>Frac CP sand as follows:</b> 111,000# of 20/40 sand in 564 bbls Viking I-25 fluid. Prefs broke down @ 2420 psi. Treated @ avg press of 1335 psi w/avg rate of 29.9 bpm. ISIP: 1850 psi, 5-min 1750 psi. Flowback on 12/64 choke for 6 hours and died.
7/31/98	5232'-5246'	<b>Frac C sand as follows:</b> 104,500# of 20/40 sand in 531 bbls Viking I-25 fluid. Prefs broke down @ 2920 psi. Treated @ avg press of 1620 psi w/avg rate of 27.8 bpm. ISIP: 2420 psi, 5-min 2200 psi. Flowback on 12/64 choke for 3 hours and died.
8/3/98	5052'-5061'	<b>Frac D sand as follows:</b> 93,700# of 20/40 sand in 500 bbls Viking I-25 fluid. Prefs broke down @ 2230 psi. Treated @ avg press of 1580 psi w/avg rate of 26.3 bpm. ISIP: 2350 psi, 5-min 1860 psi. Flowback on 12/64 choke for 3 hours and died.
8/5/98	4546'-4596'	<b>Frac GB sand as follows:</b> 104,500# of 20/40 sand in 513 bbls Viking I-25 fluid. Prefs broke down @ 3200 psi. Treated @ avg press of 1700 psi w/avg rate of 28.8 bpm. ISIP: 2000 psi, 5-min 1640 psi. Flowback on 12/64 choke for 3-1/2 hours and died.

## PERFORATION RECORD

7/28/98	5904'-5906'	4 JSPF	8 holes
7/28/98	5924'-5932'	4 JSPF	32 holes
7/28/98	5999'-6003'	4 JSPF	16 holes
7/30/98	5232'-5246'	4 JSPF	56 holes
8/1/98	5052'-5061'	4 JSPF	36 holes
8/4/98	4546'-4555'	4 JSPF	36 holes
8/4/98	4592'-4596'	4 JSPF	16 holes

Packer @ 4491'

4546'-55'

4592'-96'

5052'-61'

5232'-46'

5904'-06'

5924'-32'

5999'-6003'

SN @ 4489'

EOT @ 4493'

Sand PBTD @ 6115'

PBTD @ 6127'

TD @ 6200'



**Inland Resources Inc.**

**Tar Sands Federal #7-28**

2237 FNL 2031 FEL

SWNE Section 28-T8S-R17E

Duchesne Co, Utah

API #43-013-32069; Lease #UTU-76241

## **WORK PROCEDURE FOR INJECTION CONVERSION**

- 1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.**
- 2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.**
- 3. Test casing and packer.**
- 4. Rig down, move out.**

**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS  
RULE R615-5-1**

1. **Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**
2. **A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**

- 2.1 **The name and address of the operator of the project.**

Inland Production Company  
410 17<sup>th</sup> Street, Suite 700  
Denver, Colorado 80202

- 2.2 **A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.**

See Attachment A

- 2.3 **A full description of the particular operation for approval is requested.**

Approval is requested to convert the Tar Sands #7-28-8-17 from a producing oil well to a water injection well in the Monument Butte (Green River) Field, Boundary Unit.

- 2.4 **A description of the pools from which the identified wells are producing or have produced.**

The proposed injection well will inject into the Green River Formation.

- 2.5 **The names, description and depth of the pool or pools to be affected.**

The injection zone is in the Green River Formation. In the State #7-28-8-17 well, the proposed injection zone is from 4546'-6003'. The confining strata directly above and below the injection zones are the top of the Garden Gulch formation and the Basal Carbonate. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

- 2.6 **A copy of a log of a representative well completed in the pool.**

The referenced log for the Tar Sands #7-28-8-17 is on file with the Utah Division of Oil, Gas and Mining.



- 2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water from the Johnson Water District supply line. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

- 2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.**

See Attachment B.

- 2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

- 2.10 Any additional information the Board may determine is necessary to adequately review the petition.**

Inland Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

- 4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a Federal lease (Lease #UTU-76241) in the Monument Butte (Green River) Field, and this request is for administrative approval.

**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,  
STORAGE AND ENHANCED RECOVERY WELLS  
SECTION V – RULE R615-5-2**

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

- 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachment A and A-1.

- 2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

- 2.4 Copies of logs already on file with the Division should be referenced, but need not be refilled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24#, J-55 surface casing run to 293' GL, and the 5-1/2" 15.5# J-55 casing run from surface to 6176' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

- 2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be injected is culinary water from the Johnson Water District supply line. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

- 2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F, F-1, and F-2.

**2.8 The proposed average and maximum injection pressures.**

The proposed average injection pressure will be approximately 1500 psig and the maximum injection pressure will not exceed 1822 psig.

**2.9 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.**

The minimum fracture gradient for the Tar Sands #7-28-8-17, for proposed zones (4546'-6003') calculates at .744 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1822 psig. See Attachment G through G-1.

**2.10 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.**

In the Tar Sands #7-28-8-17, the injection zone (4546'-6003') is in the Douglas Creek member of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The Douglas Creek member is composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' within the Monument Butte area. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

**2.11 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.**

See Attachments E through E-8.

Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

**2.12 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.**

See Attachment C.

**2.13 Any other information that the Board or Division may determine is necessary to adequately review the application.**

Inland Production Company will supply any requested information to the Board or Division.







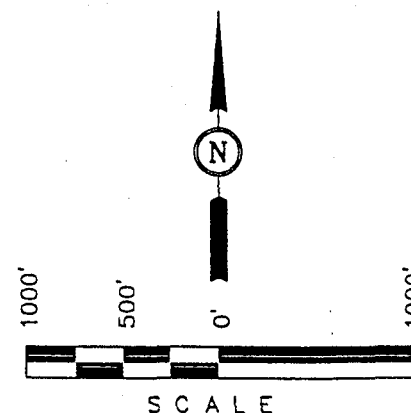
T8S, R17E, S.L.B.&M.

INLAND PRODUCTION CO.

Well location, TAR SANDS FEDERAL #7-28-8-17, located as shown in the SW 1/4 NE 1/4 of Section 28, T8S, R17E, S.L.B.&M. Duchesne County, Utah.

# BASIS OF ELEVATION

BENCH MARK (M86) LOCATED IN THE SW 1/4 OF SECTION 29, T8S, R17E, S.L.B.&M. TAKEN FROM THE MYTON SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5229 FEET.



# CERTIFICATE

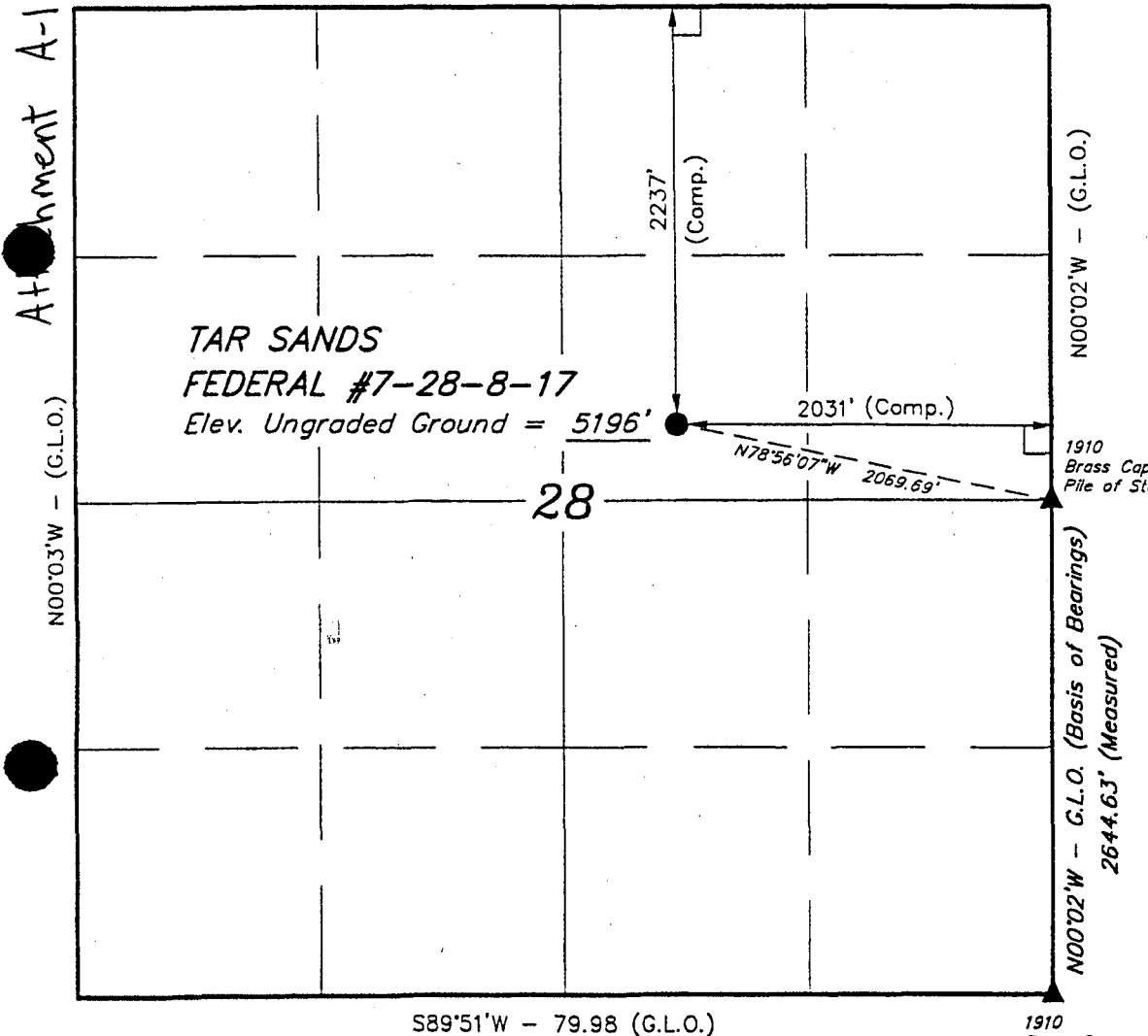
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ROBERT L. HAY  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161318  
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 11-14-97	DATE DRAWN: 2-16-98
PARTY B.B. D.R. D.COX	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE INLAND PRODUCTION CO.	

S89°50'W - 79.96 (G.L.O.)



# LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

Attachment A-1

N00°03'W - (G.L.O.)

N00°02'W - (G.L.O.)

N00°02'W - G.L.O. (Basis of Bearings)  
2644.63' (Measured)

# EXHIBIT B

Page 1

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
1	<u>Township 8 South, Range 17 East</u> Section 26: S/2SW/4, SW/4SE/4 Section 27: All Section 28: All Section 33: N/2NE/4 Section 34: N/2, N/2SE/4	UTU-76241 HBP	Inland Production Company	(Surface Rights) Joseph & Carol Shields Inland Production Company
2	<u>Township 8 South Range 17 East</u> Section 17: All Section 18: Lots 1 & 2 Section 19: E/2 Section 20: All Section 21: W/2, SE/4	UTU-76954 HBP	Inland Production Company	(Surface Rights) Joseph & Carol Shields Inland Production Company

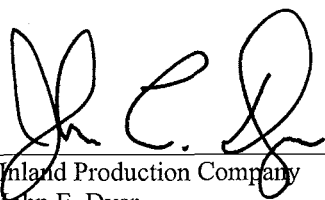
ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Tar Sands #7-28-8-17

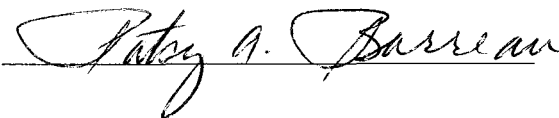
I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

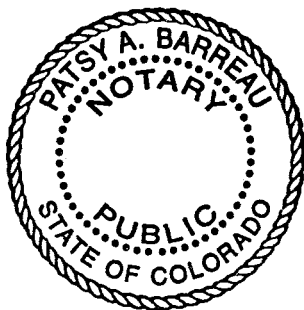
Signed: \_\_\_\_\_

  
Inland Production Company  
John E. Dyer  
Chief Operating Officer

Sworn to and subscribed before me this 26<sup>th</sup> day of July, 1999.

Notary Public in and for the State of Colorado: \_\_\_\_\_





My Commission Expires 11/14/2000

## Tar Sands Federal #7-28

Spud Date: 6/22/98  
Put on Production: 8/8/98  
GL: 5196' KB: 5206'

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (292.33')  
DEPTH LANDED: 292.83' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Class G cmt, est 4.5 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 145 jts. (6165')  
DEPTH LANDED: 6176' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 360 sxs Premium Lite mixed & 400 sxs Class G  
CEMENT TOP AT: Surface per CBL

*Good bond to 11000'  
> 8090' to 3400'*

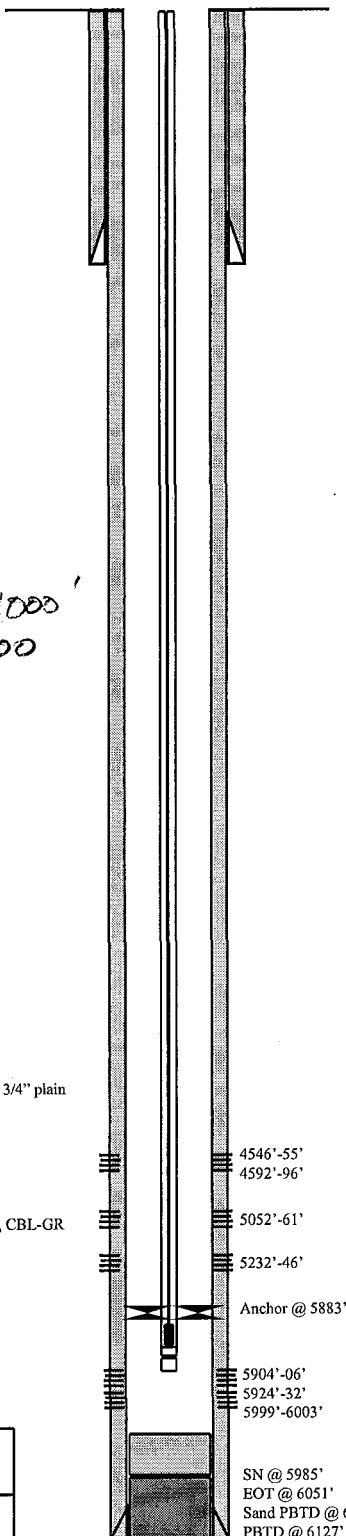
TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 182 jts  
TUBING ANCHOR: 5883'  
SEATING NIPPLE: 2-7/8" (1.10')  
TOTAL STRING LENGTH: EOT @ 6051'  
SN LANDED AT: 5985'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 4 - 1-1/2" weight rods, 4 - 3/4" scapared rods, 135 - 3/4" plain rods, 96 - 3/4" scapared rods. 1 - 8"x3/4" pony rod.  
PUMP SIZE: 2-1/2" x 1-1/2" x 16 RHAC  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 9 SPM  
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

Wellbore Diagram



Initial Production: 112 BOPD,  
196 MCFPD, 12 BWPD

FRAC JOB

7/29/98	5904'-6003'	<b>Frac CP sand as follows:</b> 111,000# of 20/40 sand in 564 bbls Viking I-25 fluid. Prefs broke down @ 2420 psi. Treated @ avg press of 1335 psi w/avg rate of 29.9 bpm. ISIP: 1850 psi, 5-min 1750 psi. Flowback on 12/64 choke for 6 hours and died.
7/31/98	5232'-5246'	<b>Frac C sand as follows:</b> 104,500# of 20/40 sand in 531 bbls Viking I-25 fluid. Prefs broke down @ 2920 psi. Treated @ avg press of 1620 psi w/avg rate of 27.8 bpm. ISIP: 2420 psi, 5-min 2200 psi. Flowback on 12/64 choke for 3 hours and died.
8/3/98	5052'-5061'	<b>Frac D sand as follows:</b> 93,700# of 20/40 sand in 500 bbls Viking I-25 fluid. Prefs broke down @ 2230 psi. Treated @ avg press of 1580 psi w/avg rate of 26.3 bpm. ISIP: 2350 psi, 5-min 1860 psi. Flowback on 12/64 choke for 3 hours and died.
8/5/98	4546'-4596'	<b>Frac GB sand as follows:</b> 104,500# of 20/40 sand in 513 bbls Viking I-25 fluid. Prefs broke down @ 3200 psi. Treated @ avg press of 1700 psi w/avg rate of 28.8 bpm. ISIP: 2000 psi, 5-min 1640 psi. Flowback on 12/64 choke for 3-1/2 hours and died.

PERFORATION RECORD

7/28/98	5904'-5906'	4 JSPF	8 holes
7/28/98	5924'-5932'	4 JSPF	32 holes
7/28/98	5999'-6003'	4 JSPF	16 holes
7/30/98	5232'-5246'	4 JSPF	56 holes
8/1/98	5052'-5061'	4 JSPF	36 holes
8/4/98	4546'-4555'	4 JSPF	36 holes
8/4/98	4592'-4596'	4 JSPF	16 holes



Inland Resources Inc.

Tar Sands Federal #7-28

2237 FNL 2031 FEL

SWNE Section 28-T8S-R17E

Duchesne Co, Utah

API #43-013-32069; Lease #UTU-76241

SN @ 5985'  
EOT @ 6051'  
Sand PBTD @ 6115'  
PBTD @ 6127'  
TD @ 6200'



## Tar Sands Federal #2-28

Spud Date: 7/12/96  
Put on Production: 10/30/96  
GL: 5220' KB: 5233'

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (290.46')  
DEPTH LANDED: 288.86' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Premium cmt, est 4 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 150 jts. (6384.21')  
DEPTH LANDED: 6380.02' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 280 sk Hyfill mixed & 370 sxs thixotropic  
CEMENT TOP AT: Surface per CBL

780% TO 3070

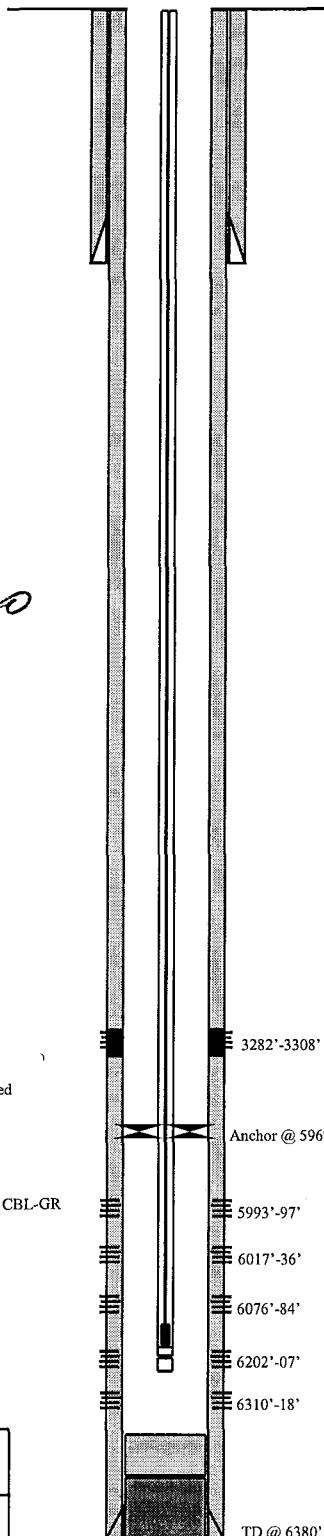
TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
NO. OF JOINTS: 198 jts  
TUBING ANCHOR: 5969'  
SEATING NIPPLE: 2-7/8" (1.10')  
TOTAL STRING LENGTH: ? (EOT @ 6195')  
SN LANDED AT: 6125'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 8-1" scraped, 137-3/4" plain rods, 99-3/4" scraped  
PUMP SIZE: 2-1/2" x 1-1/2" x 12 x 15 RHAC rod pump  
STROKE LENGTH: 74"  
PUMP SPEED, SPM: 6 SPM  
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

Wellbore Diagram



Initial Production: 28 BOPD,  
37 MCFPD, 4 BWPD

FRAC JOB

10/8/96 3282'-3308' **Frac K sand as follows:**  
15,400# of 20/40 sand in 88 bbls of Boragel + 30% nitrogen. Breakdown @ 2975 psi. Treated @ avg rate of 10 bpm w/avg press of 2850 psi. ISIP-1946 psi. 5-min 1881 psi. RU flow equip. Flowback after 30 min SI on 8/64" ck for 4 hrs and died.

10/11/96 **Squeeze K perfs as follows:**  
30 sks 9# cmt and 30 sks 15.6 PPG @ 1.18 ft<sup>3</sup>/sk Premium cmt w/ additives. Starting press when cmt hit perfs @ 1400 psi. Ending press @ 2500 psi. Leave press on csg.

10/22/96 6202'-6318' **Frac CP-4 & CP-5 sands as follows:**  
81,200# of 20/40 sand in 523 bbls of Delta Frac Fluid. Breakdown @ 3860 psi. Treated @ avg rate of 16.5 bpm w/avg press of 3500 psi. ISIP-2291 psi, 5-min 2122 psi. Flowback on 12/64" ck for 6 hrs and died.

10/24/96 5993'-6084' **Frac CP-1 & CP-2 sands as follows:**  
33,800 # of 20/40 sand in 282 bbls of Delta Frac fluid. Started to screen off, so cut sand @ 6.3 PPG & flushed to perfs. Placed 33,800# sand into formation. Breakdown @ 3750 psi. Treated @ avg rate of 20.8 bpm w/avg press of 3000 psi. ISIP-1837 psi. 5-min 1710 psi. Flowback on 12/64" ck for 2-1/2 hrs and died.

PERFORATION RECORD

Date	Depth Range	Tool	Holes
10/7/96	3282'-3308'	2 JSPF	52 holes sqz
10/19/96	6202'-6207'	4 JSPF	20 holes
10/19/96	6310'-6318'	4 JSPF	32 holes
10/22/96	5993'-5997'	4 JSPF	16 holes
10/22/96	6017'-6036'	4 JSPF	72 holes
10/22/96	6076'-6084'	4 JSPF	32 holes



Inland Resources Inc.

Tar Sands Federal #2-28

858 FNL 2178 FEL

NWNE Section 28-T8S-R17E

Duchesne Co, Utah

API #43-013-31642; Lease #U-74870

## Tar Sands Federal #3-28

Spud Date: 5/18/96  
Put on Injection: 6/25/98  
GL: 5236' KB: 5249'

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (290.77')  
DEPTH LANDED: 288.77' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Premium cmt, est 3 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 150 jts. (6415.30')  
DEPTH LANDED: 6411.30' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sk Hyfill mixed & 365 sxs thixotropic  
CEMENT TOP AT: Surface per CBL

> 80' 3060 - 5750  
> 60' 675 - 3600

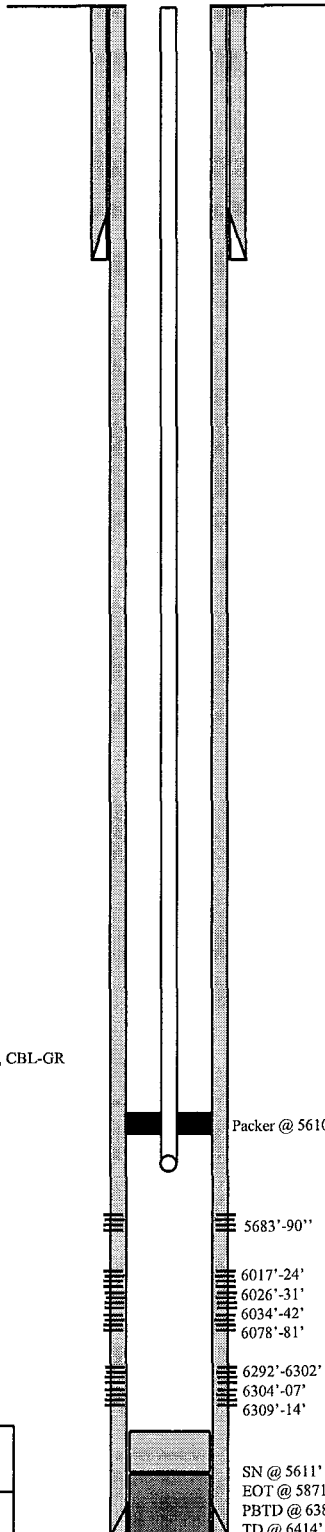
TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
NO. OF JOINTS: 204 jts  
PACKER: 5610'  
SEATING NIPPLE: 2-7/8" (1.10')  
TOTAL STRING LENGTH: ? (EOT @ 5871')  
SN LANDED AT: 5611'

SUCKER RODS

LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

Injection Diagram



Initial Production: ? BOPD, ?  
MCFPD, ? BWPD

FRAC JOB

7/8/96	6292'-6314'	<b>Frac CP-5 sand as follows:</b> 66,100# of 20/40 sand w/421 bbls of Boragel. Brokedown @ 2770 psi, treated @ avg press 1880#, avg rate 20.3. ISIP-2305, 5-min 2097. Flowback after 5 min on 16/64" choke for 6-1/2 hrs & died.
7/10/96	6017'-6081'	<b>Frac CP-1 and CP-2 sands as follows:</b> 96,500# of 20/40 sand in 509 bbls of Boragel. Breakdown @ 1760 psi. Treated @ avg rate of 20.5 bpm w/avg press of 1800 psi. ISIP-2547 psi, 5-min 2346 psi.. Flowback after 5 min on 16/64" ck for 3-1/2 hrs & died.
7/12/96	5683'-5690'	<b>Frac A-1 sand as follows:</b> 82,000# 20/40 sand in 436 bbls of Boragel. Breakdown @ 2578 psi, treated @ avg rate 16 bpm w/avg press 1850 psi. ISIP-1925 psi, 5-min 1822 psi. Flowback on 16/64" ck for 3-1/2 hrs until dead.

PERFORATION RECORD

6/28/96	6292'-6302'	4 JSPF	40 holes
6/28/96	6304'-6307'	4 JSPF	12 holes
6/28/96	6309'-6314'	4 JSPF	20 holes
7/9/96	6017'-6024'	4 JSPF	28 holes
7/9/96	6026'-6031'	4 JSPF	20 holes
7/9/96	6034'-6042'	4 JSPF	32 holes
7/9/96	6078'-6081'	4 JSPF	12 holes
7/11/96	5683'-5690'	4 JSPF	28 holes



Inland Resources Inc.

Tar Sands Federal #3-28

474 FNL 2050 FWL

NENW Section 28-T8S-R17E

Duchesne Co, Utah

API #43-013-31623; Lease #U-74870

Packer @ 5610'

5683'-90"

6017'-24'

6026'-31'

6034'-42'

6078'-81'

6292'-6302'

6304'-07'

6309'-14'

SN @ 5611'

EOT @ 5871'

PBTID @ 6389'

TD @ 6414'

## Tar Sands Federal #5-28I

Spud Date: 7/18/97  
Put on Production: 9/4/97  
GL: 5240' KB: 5252'

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (282.09')  
DEPTH LANDED: 280.67' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Premium cmt, est 9 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 142 jts. (6015.92')  
DEPTH LANDED: 6026' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 470 sk Hibond mixed & 450 sxs thixotropic  
CEMENT TOP AT: 1000' per CBL  
780 % 1150

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
NO. OF JOINTS: 197 jts  
PACKER: 5092'  
SEATING NIPPLE: 5-1/2" (1.10')  
TOTAL STRING LENGTH: ? (EOT @ 5726')  
SN LANDED AT:

SUCKER RODS

POLISHED ROD:  
SUCKER RODS:  
STROKE LENGTH:  
PUMP SPEED, SPM:  
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

Injection Well  
Wellbore Diagram

Cement Top 1000'

Packer @ 5092'

5142'-45'  
5150'-61'  
5264'-74'  
5339'-45'  
5357'-63'  
5572'-83'  
5612'-26'  
5960'-66'  
5968'-76'

EOT @ 5726'  
PBTD @ 6022'  
TD @ 6380'

Initial Production: 147 BOPD,  
192 MCFPD, 3 BWPD

FRAC JOB

8/21/97 5960'-5966' **Frac CP sand as follows:**  
99,900# of 20/40 sand in 510 bbls of Boragel. Breakdown @ 2863 psi. Treated @ avg rate of 24.3 bpm w/avg press of 2000 psi. ISIP-2203 psi, 5-min 1975 psi. Flowback on 12/64" ck for 3-1/2 hours and died.

8/23/97 5572'-5626' **Frac A sands as follows:**  
106,800# of 20/40 sand in 545 bbls of Boragel. Breakdown @ 1801 psi. Treated @ avg rate of 26.3 bpm w/avg press of 1200 psi. ISIP-1804 psi, 5-min 1711 psi. Flowback on 12/64" ck for 3 hours and died.

8/26/97 5264'-5363' **Frac C/B sand as follows:**  
95,500# of 20/40 sand in 487 bbls of Boragel. Breakdown @ 2306 psi. Treated @ avg rate of 24.5 bpm w/avg press of 2100 psi. ISIP-2425 psi, 5-min 2206 psi. Flowback on 12/64" ck for 2-1/2 hours and died.

8/29/97 5142'-5161' **Frac D sand as follows:**  
87,200# of 20/40 sand in 457 bbls of Boragel. Breakdown @ 3194 psi. Treated @ avg rate of 22.3 bpm w/avg press of 1560 psi. ISIP-2118 psi, 5-min 2044 psi. Flowback on 12/64" ck for 2 hours and died.

PERFORATION RECORD

8/21/97	5960'-5966'	4 JSPF	32 holes
8/21/97	5968'-5976'	4 JSPF	24 holes
8/22/97	5572'-5583'	4 JSPF	44 holes
8/22/97	5612'-5626'	4 JSPF	56 holes
8/26/97	5264'-5274'	4 JSPF	40 holes
8/26/97	5339'-5345'	4 JSPF	24 holes
8/26/97	5357'-5363'	4 JSPF	24 holes
8/28/97	5142'-5145'	4 JSPF	12 holes
8/28/97	5150'-5161'	4 JSPF	44 holes



Inland Resources Inc.

Tar Sands Federal #5-28I

660 FWL 1980 FNL

NENE Section 28-T8S-R17E

Duchesne Co, Utah

API #43-013-31697; Lease #U-74870

## Tar Sands Federal #6-28

Spud Date: 9/17/97  
Put on Production: 10/29/97  
GL: 5215.3' KB: 5228.3'

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (268')  
DEPTH LANDED: 278' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 140 sxs Premium cmt, est 7 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 147 jts. (6203')  
DEPTH LANDED: 6213' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 305 sxs Hibond mixed & 340 sxs thixotropic  
CEMENT TOP AT:  $\approx 80\%$  TD 3500

TUBING

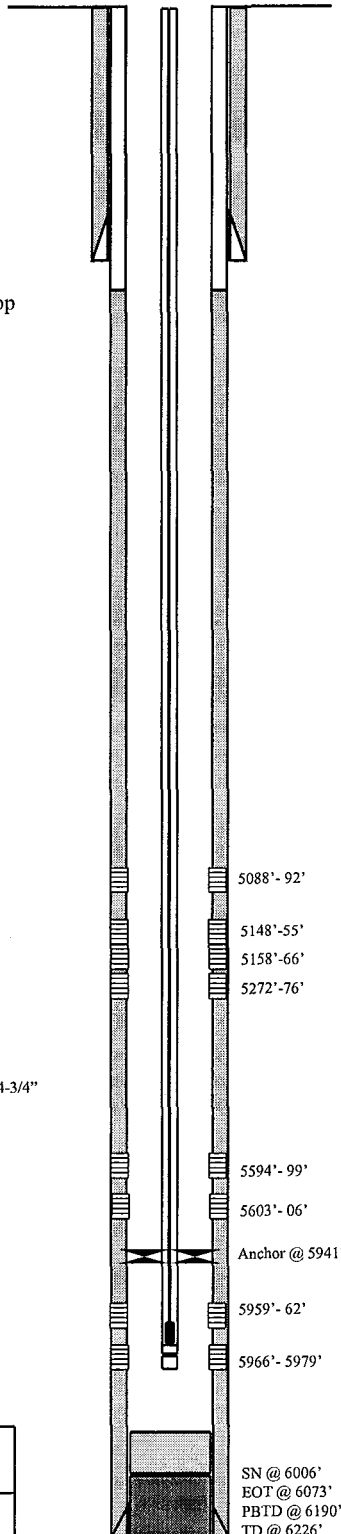
SIZE/GRADE/WT.: 2-7/8" / M -50 / 6.5#  
NO. OF JOINTS: 191 jts  
TUBING ANCHOR: 5941'  
SEATING NIPPLE: 2 - 7/8"  
TOTAL STRING LENGTH: ?  
SN LANDED AT: 6006'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 4-11/2" wt rods; 4-3/4" scraped; 135-3/4" plain; 94-3/4" scraped; 1-2"x3/4" pony rod  
PUMP SIZE: 2-1/2" x 1-1/2" x 16 RHAC rod pump  
STROKE LENGTH: 64"  
PUMP SPEED, SPM: 9 SPM  
LOGS: DiGL/SP/GR/CAL (6222'-280')  
DSN/SDL/GR (6195'-3000')

Wellbore Diagram

Cement Top



Initial Production: 154 BOPD,  
107 MCFPD, 13 BWPD

FRAC JOB

10/14/97 5959'-5979' **Frac CP sand as follows:**  
85,600# of 20/40 sand in 496 bbls of Boragel. Breakdown @ 2846 psi. Treated @ avg rate of 26.2 bpm w/avg press of 2450 psi. ISIP-2545 psi, 5-min 2225 psi. Flowback on 12/64" ck for 3 - hours and died.

10/15/97 5594'-5606' **Frac A sand as follows:**  
113,300# of 20/40 sand in 579 bbls of Boragel. Breakdown @ 2666 psi. Treated @ avg rate of 26 bpm w/avg press of 1700 psi. ISIP-2781 psi, 5-min 2662 psi. Flowback on 12/64" ck for 3 hours and died.

10/17/97 5088'-5276' **Frac D/C sand as follows:**  
143,100# of 20/40 sand in 658 bbls of Boragel. Breakdown @ 2240 psi, then broke again @ 3320 psi. Treated @ avg rate of 40 BPM w/avg press of 2210 psi. ISIP-2583 psi, 5 min 2509 psi. Flowback on 12/64" ck for 4 hrs & died.

PERFORATION RECORD

10/12/97	5959' - 5962'	4 JSPF	12 holes
10/12/97	5966' - 5979'	4 JSPF	52 holes
10/15/97	5594' - 5599'	4 JSPF	20 holes
10/15/97	5603' - 5606'	4 JSPF	12 holes
10/17/97	5088' - 5092'	4 JSPF	16 holes
10/17/97	5148' - 5155'	4 JSPF	28 holes
10/17/97	5158' - 5166'	4 JSPF	32 holes
10/17/97	5272' - 5276'	4 JSPF	16 holes



Inland Resources Inc.

Tar Sands Federal #6-28

1980 FNL 1980 FWL

SENW Section 28-T8S-R17E

Duchesne Co, Utah

API #43-013-31921; Lease #U-76241

## Tar Sands Federal #8-28

Spud Date: 7/21/98  
Put on Production: 8/24/98  
GL: 5199' KB: 5210'

Initial Production: 140 BOPD,  
172 MCFPD, 10 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. 292'  
DEPTH LANDED: 292' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Class G

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 146 jts. (6175')  
DEPTH LANDED: 6186' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 350 sxs Premium Lite mixed & 410 sxs Class G  
CEMENT TOP AT: 6000' EOT TO 4060'

> 80% TO 2500'

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
NO. OF JOINTS: 193 jts  
TUBING ANCHOR: 5863'  
SEATING NIPPLE: 2-7/8" (1.10')  
TOTAL STRING LENGTH: EOT @ 6022'  
SN LANDED AT: 5928'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 4 - 1-1/2" weight rods, 4 - 3/4" scraped rods, 132 - 3/4" plain rods, 96 - 3/4" scraped rods, 1 - 8', 1 - 6' x 3/4" pony rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 16 RHAC  
STROKE LENGTH: 74"  
PUMP SPEED, SPM: 6 SPM  
LOGS: DIGL/SP/GR/CAL/CN/CD/CBL-GR

FRAC JOB

8/13/98 5938'-6097' **Frac CP sand as follows:**  
130,600# 20/40 sand in 626 bbl Viking I-25 fluid. Perfs broke down @ 4004 psi. Treated @ avg press of 1520 w/avg rate of 32.3 bpm. ISIP: 1920 psi, 5 min: 1830 psi. Flowback on 12/64 choke for 4 hrs & died

8/14/98 5614'-5646' **Frac A sand as follows:**  
119,900# of 20/40 sand in 592 bbls Viking I-25 fluid. Perfs broke down @ 2530 psi. Treated @ avg press of 1700 psi w/avg rate of 28.4 bpm. ISIP: 1800 psi, 5-min 1660 psi. Flowback on 12/64 choke for 4 hours and died.

8/16/98 5096'-5290' **Frac D/C sand as follows:**  
142,000# of 20/40 sand in 681 bbls Viking I-25 fluid. Perfs broke down @ 2510 psi. Treated @ avg press of 1855 psi w/avg rate of 37.4 bpm. ISIP: 3780 psi, 5-min 3150 psi. Flowback on 12/64 choke for 2 hours and died.

8/16/98 4612'-4674' **Frac GB sand as follows:**  
110,400# of 20/40 sand in 526 bbls Viking I-25 fluid. Perfs broke down @ 2800 psi. Treated @ avg press of 1200 psi w/avg rate of 28.2 bpm. ISIP: 1880 psi, 5-min 1720 psi. Flowback on 12/64 choke for 4.5 hours and died.

PERFORATION RECORD

8/11/98	5938'-5940'	4 JSPF	8 holes
8/11/98	5945'-5948'	4 JSPF	12 holes
8/11/98	6012'-6016'	4 JSPF	16 holes
8/11/98	6036'-6039'	4 JSPF	12 holes
8/11/98	6093'-6097'	4 JSPF	16 holes
8/13/98	5614'-5617'	4 JSPF	12 holes
8/13/98	5643'-5646'	4 JSPF	12 holes
8/15/98	5096'-5099'	2 JSPF	6 holes
8/15/98	5174'-5188'	2 JSPF	8 holes
8/15/98	5216'-5219'	2 JSPF	6 holes
8/15/98	5258'-5271'	2 JSPF	26 holes
8/15/98	5284'-5290'	2 JSPF	12 holes
8/18/98	4612'-4614'	2 JSPF	4 holes
8/18/98	4618'-4626'	2 JSPF	16 holes
8/18/98	4635'-4265'	2 JSPF	60 holes
8/18/98	4671'-4274'	2 JSPF	6 holes

SN @ 5928'  
EOT @ 6022'  
Sand PBTD @ 6138'  
PBTD @ 6141'  
TD @ 6200'



**Inland Resources Inc.**

**Tar Sands Federal #8-28**

1835 FNL 784 FEL

SENE Section 28-T8S-R17E

Duchesne Co, Utah

API #43-013-32068; Lease #U-76241

## Tar Sands Federal #9-28

Spud Date: 6/25/98  
Put on Production: 8/24/98  
GL: 5191' KB: 5201'

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (295')  
DEPTH LANDED: 295'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Class "G" cmt, & 15 sxs Class "G".

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 143 jts. (6129')  
SET AT: 6140'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 380 sxs Premium modified mixed & 380 sxs class G  
CEMENT TOP AT: 390' per cement bond log (Schlumberger)

*Good Bond to 1670'  
780%*

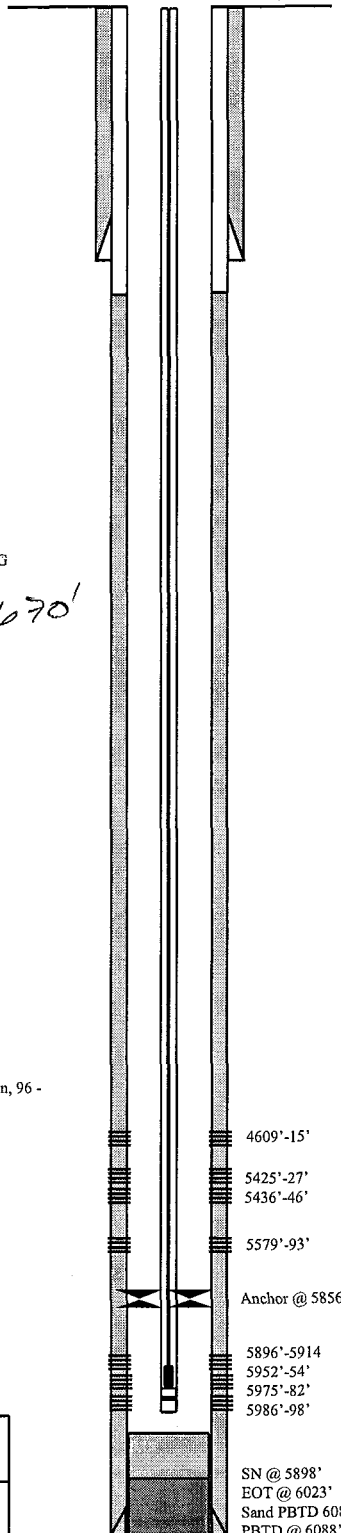
TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 180 jts  
TUBING ANCHOR: 5856'  
SEATING NIPPLE: 2-7/8"  
TOTAL STRING LENGTH: EOT @ 6023'  
SN LANDED AT: 5989'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 4 - 1-1/2" wt rods, 4 - 3/4" scraped, 134 - 3/4" plain, 96 - 3/4" scraped, 1 - plain rod, 1 - 8', 1 - 4' x 3/4" pony.  
PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC Pump  
STROKE LENGTH: 100"  
PUMP SPEED, SPM: 8 SPM  
LOGS: DIGL/SP/GR/CAL  
SDL/DSN/GR

Wellbore Diagram



Initial Production: 44 BOPD;  
56 MCFD; 5 BWPD

FRAC JOB

8/12/98 5896'-5998' **Frac CP-1 & CP-2 sand as follows:**  
100,500# 20/40 sand in 533 bbls Viking I-25 fluid. Perfs broke back @ 2520 psi. Treated @ avg press of 1070 psi w/avg rate of 32 BPM. ISIP: 1460 psi, 5-min 1380 psi. Flowback on 12/64 choke for 3-1/2 hours and died.

8/14/98 5579'-5593' **Frac A-3 sand as follows:**  
96,850# 20/40 sand in 534 bbls Viking I-25 fluid. Perfs broke back @ 3470 psi. Treated @ avg press of 1780 psi w/avg rate of 28.6 BPM. ISIP: 2200 psi, 5-min 2050 psi. Flowback on 12/64 choke for 4 hours and died.

8/17/98 5425'-5446' **Frac B-2 sand as follows:**  
90,000# 20/40 sand in 490 bbls Viking I-25 fluid. Perfs broke back @ 3820 psi. Treated @ avg press of 1335 psi w/avg rate of 25.1 BPM. ISIP: 1840 psi, 5-min SI - 1600 psi. Flowback on 12/64 choke for 4 hours and died.

8/19/98 4609'-4615' **Frac GB-6 sand as follows:**  
81,900# 20/40 sand in 431 bbls Viking I-25 fluid. Perfs broke back @ 3100 psi. Treated @ avg press of 1970 psi w/avg rate of 24.7 BPM. ISIP: 2420 psi, 5-min SI - 2100 psi. Flowback on 12/64 choke for 3-1/2 hours and died.

PERFORATION RECORD

8/11/98	5896'-5914'	2 JSPF	36 holes
8/11/98	5952'-5954'	2 JSPF	4 holes
8/11/98	5975'-5972'	2 JSPF	14 holes
8/11/98	5986'-5998'	2 JSPF	14 holes
8/13/98	5579'-5593'	4 JSPF	56 holes
8/15/98	5425'-5427'	4 JSPF	8 holes
8/15/98	5436'-5446'	4 JSPF	40 holes
8/18/98	4609'-4615'	4 JSPF	24 holes



Inland Resources Inc.

Tar Sands Federal #9-28

2083 FSL 679 FEL

NESE Section 28-T8S-R17E

Duchesne Co, Utah

API #43-013-32067; Lease #U-76241

## Tar Sands Federal #10-28

Spud Date: 6/24/98  
Put on Production: 8/19/98  
GL: 5207' KB: 5217'

Initial Production: 238 BOPD,  
377 MCFPD, 15 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 288' (7 jts)  
DEPTH LANDED: 288' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Premium cmt Est 6 bbls cmt to surface.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 144 jts (6128')  
DEPTH LANDED: 6139'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 375 sxs Premium mixed & 400 sxs Class 'G'  
CEMENT TOP AT: 241' per KB

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 189 jts  
TUBING ANCHOR: 5873'  
SEATING NIPPLE: 2-7/8" (1.10')  
TOTAL STRING LENGTH: EOT @ 6001'  
SN LANDED AT: 5938'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished  
SUCKER RODS: 4 - 1-1/2" weight rods, 4 - 3/4" scraped, 133 - 3/4" plain, 95 - 3/4" scraped, 1 - 8' x 3/4" pony rods.  
TOTAL ROD STRING LENGTH: ?  
PUMP SIZE: 2-1/2 x 1-1/2 x 16' RHAC pump  
STROKE LENGTH: 84"  
PUMP SPEED, SPM: 8  
LOGS: GR, SP, Spectral Density-Dual Spaced Neuron, CBL-GR

FRAC JOB

7/24/98 5906'-5927' **Frac CP-1 sand as follows:**  
109,021# 20/40 sand in 565 bbls Viking I-25 fluid. Perfs broke down @ 2428 psi. Treated @ avg press of 1300 psi w/avg rate of 28.2 BPM. ISIP-1750 psi, 5-min 1537 psi. Flowback on 12/64" choke for 3-1/2 hours and died.

7/27/98 5565'-5582' **Frac A-3 sand as follows:**  
121,500# 20/40 sand in 586 bbls Viking I-25 fluid. Perfs broke down @ 3100 psi. Treated @ avg press of 1880 psi w/avg rate of 30.3 BPM. ISIP-1980 psi, 5-min 1860 psi. Flowback on 12/64" choke for 3 hours and died.

7/29/98 5417'-5426' **Frac B-2 sand as follows:**  
111,800# 20/40 sand in 565 bbls Viking I-25 fluid. Perfs broke down @ 4000 psi, w/ 2nd break @ 1760 psi w/ rate.. Treated @ avg press of 1425 psi w/avg rate of 28.5 BPM. ISIP-2150 psi, 5-min 1700 psi. Flowback on 12/64" choke for 4 hours and died.

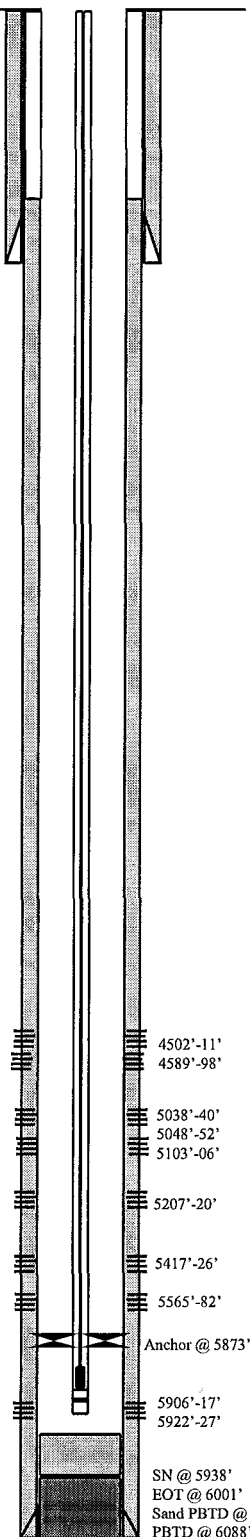
7/31/98 5207'-5220' **Frac C-Sd sand as follows:**  
105,400# 20/40 sand in 430 bbls Viking I-25 fluid. Perfs broke down @ 3300 psi. Treated @ avg press of 1650 psi w/avg rate of 24 bpm. With 7# sand @ perfs, slurry pumps began pumping extremely rough. Maximum rate able to pump was reduced to 19 bpm. Pressure began rising quickly. 10 ppg sand was reached @ blender before cutting sand. Flushed 20 bbls before screenout occurred w/9# sand on perfs. Est. 76,100# sand on formation, 29,300# sand left in casing. Flow well back. Rec 5 bbls.

8/3/98 5038'-5106' **Frac D-1 & D-2 sand as follows:**  
94,700# 20/40 sand in 495 bbls Viking I-25 fluid. Perfs broke down @ 2100 psi. Treated @ avg press of 2050 psi w/avg rate of 30.5 BPM. ISIP-2920 psi, 5-min 2540 psi. Flowback on 12/64" choke for 2-1/2 hours and died.

8/5/98 4502'-4598' **Frac GB-4 & GB-6 sand as follows:**  
118,000# 20/40 sand in 569 bbls Viking I-25 fluid. Perfs broke down @ 3600 psi. Treated @ avg press of 1750 psi w/avg rate of 30.6 BPM. ISIP-2160 psi, 5-min 1700 psi. Flowback on 12/64" choke for 3-1/2 hours and died.

PERFORATION RECORD

Date	Depth Range	Tool	Holes
7/23/98	5906'-5917'	4 JSPF	44 holes
7/23/98	5922'-5927'	4 JSPF	20 holes
7/25/98	5565'-5582'	4 JSPF	68 holes
7/29/98	5417'-5426'	4 JSPF	36 holes
7/30/98	5207'-5220'	4 JSPF	52 holes
8/1/98	5038'-5040'	4 JSPF	8 holes
8/1/98	5048'-5052'	4 JSPF	16 holes
8/1/98	5103'-5106'	4 JSPF	12 holes
8/4/98	4502'-4511'	4 JSPF	36 holes
8/4/98	4589'-4598'	4 JSPF	36 holes



Inland Resources Inc.

Tar Sands Federal #10-28

2025 FSL 1964 FEL

NWSE Section 286-T8S-R17E

Duchesne Co, Utah

API #43-013-32066; Lease #U-76241

## Tar Sands Federal #14-28

Spud Date: 6/30/98  
Put on Production: 8/19/98  
GL: 5109' KB: 5121'

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (313')  
DEPTH LANDED: 314' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Class G

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 142 jts. (5972')  
DEPTH LANDED: 5981' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 340 sxs Premium Lite mixed & 350 sxs Class G  
CEMENT TOP AT: Surface per CBL

GREATER THAN 80"  
TO 3094

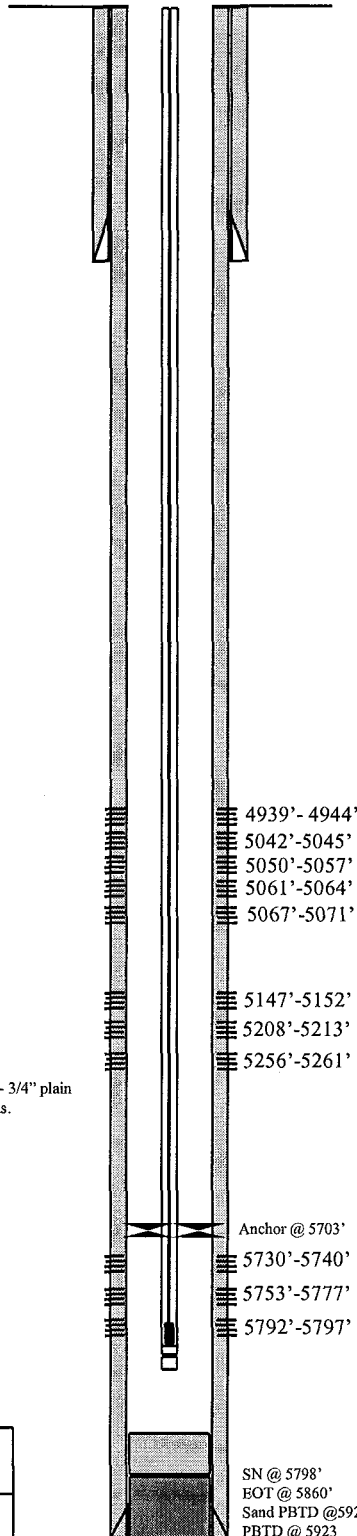
TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
NO. OF JOINTS: 192 jts  
TUBING ANCHOR: 5703'  
SEATING NIPPLE: 2-7/8" (1.10')  
TOTAL STRING LENGTH: EOT @ 5860'  
SN LANDED AT: 5798'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 4 - 1-1/2" weight rods, 4 - 3/4" scraped rods, 128 - 3/4" plain rods, 95 - 3/4" scraped rods, 1 - 8', 1 - 6', 1 - 4', 1-2' x 3/4" pony rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 15-1/2 RHAC  
STROKE LENGTH: 74"  
PUMP SPEED, SPM: 5 1/2 SPM  
LOGS: DIGL/SP/GR/CAL/CN/CD/CBL-GR

Wellbore Diagram

FRAC JOB

8/11/98 5730'-5797' **Frac CP sand as follows:**  
112,100# 20/40 sand in 559 bbl Viking I-25 fluid. Perfs broke down @ 3720 psi. Treated @ avg press of 1350 w/avg rate of 30.2 bpm. ISIP: 1820 psi, 5 min: 1700 psi. Flowback on 12/64 choke for 4-1/2 hrs & died

8/13/98 5147'-5261' **Frac B sand as follows:**  
118,500# of 20/40 sand in 584 bbls Viking I-25 fluid. Perfs broke down @ 3137 psi. Treated @ avg press of 1980 psi w/avg rate of 32 bpm. ISIP: 2300 psi, 5-min 2140 psi. Flowback on 12/64 choke for 3 hours and died.

8/15/98 4939'-5071' **Frac D/C sand as follows:**  
128,800# of 20/40 sand in 607 bbls Viking I-25 fluid. Perfs broke down @ 3200 psi. Treated @ avg press of 2150 psi w/avg rate of 36.1 bpm. ISIP: 2800 psi, 5-min 2700 psi. Flowback on 12/64 choke for 3 hours and died.

PERFORATION RECORD

Date	Interval	Tool	Holes
8/9/98	5730'-5740'	2 JSPF	20 holes
8/9/98	5753'-5777'	2 JSPF	48 holes
8/9/98	5792'-5797'	2 JSPF	10 holes
8/12/98	5147'-5152'	4 JSPF	20 holes
8/12/98	5208'-5213'	4 JSPF	20 holes
8/12/98	5256'-5261'	4 JSPF	20 holes
8/14/98	4939'-4944'	4 JSPF	20 holes
8/14/98	5042'-5045'	4 JSPF	12 holes
8/14/98	5050'-5057'	4 JSPF	28 holes
8/14/98	5061'-5064'	4 JSPF	12 holes
8/14/98	5067'-5071'	4 JSPF	16 holes

SN @ 5798'  
EOT @ 5860'  
Sand PBTD @ 5921'  
PBTD @ 5923'  
TD @ 6000'



Inland Resources Inc.

Tar Sands Federal #14-28

660 FSL 1982 FWL

SESW Section 28-T8S-R17E

Duchesne Co, Utah

API #43-013-32065; Lease #U-76241



**UNICHEM**

A Division of BJ Services

P.O. Box 217  
Roosevelt, Utah 84066Office (801) 722-5088  
Fax (801) 722-5727

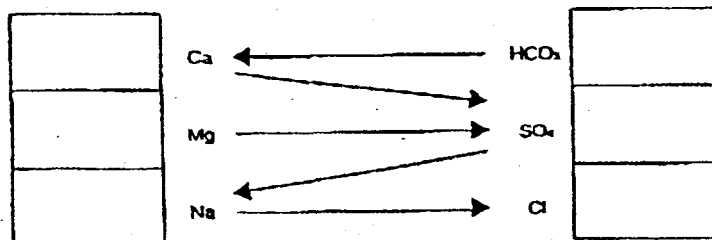
Attachment F

**WATER ANALYSIS REPORT**

Company INLAND Address \_\_\_\_\_ Date 01-14-98  
 Source Johnson Water Date Sampled \_\_\_\_\_ Analysis No. \_\_\_\_\_  
FRESH WATER

	Analysis	mg/l(ppm)	*Meq/l
1. PH	<u>7.0</u>		
2. H <sub>2</sub> S (Qualitative)	<u>0.5</u>		
3. Specific Gravity	<u>1.001</u>		
4. Dissolved Solids		<u>593</u>	
5. Alkalinity (CaCO <sub>3</sub> )		CO <sub>3</sub> <u>0</u>	÷ 30 <u>0</u> CO <sub>3</sub>
6. Bicarbonate (HCO <sub>3</sub> )		HCO <sub>3</sub> <u>300</u>	÷ 61 <u>5</u> HCO <sub>3</sub>
7. Hydroxyl (OH)		OH <u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)		Cl <u>35</u>	÷ 35.5 <u>1</u> Cl
9. Sulfates (SO <sub>4</sub> )		SO <sub>4</sub> <u>110</u>	÷ 48 <u>2</u> SO <sub>4</sub>
10. Calcium (Ca)		Ca <u>44</u>	÷ 20 <u>2</u> Ca
11. Magnesium (Mg)		MG <u>22</u>	÷ 12.2 <u>2</u> Mg
12. Total Hardness (CaCO <sub>3</sub> )		<u>200</u>	
13. Total Iron (Fe)		<u>2.2</u>	
14. Manganese			
15. Phosphate Residuals			

\*Milli equivalents per liter

**PROBABLE MINERAL COMPOSITION****Saturation Values**CaCO<sub>3</sub>CaSO<sub>4</sub> · 2H<sub>2</sub>OMgCO<sub>3</sub>**Distilled Water 20°C**

13 Mg/l

2,090 Mg/l

103 Mg/l

Compound	Equlv. Wt.	X	Meq/l	=	Mg/l
Ca(HCO <sub>3</sub> ) <sub>2</sub>	81.04	<u>2</u>			<u>162</u>
CaSO <sub>4</sub>	68.07				
CaCl <sub>2</sub>	55.50				
Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17	<u>2</u>			<u>146</u>
MgSO <sub>4</sub>	60.19				
MgCl <sub>2</sub>	47.62				
NaHCO <sub>3</sub>	64.00	<u>1</u>			<u>84</u>
Na <sub>2</sub> SO <sub>4</sub>	71.03	<u>2</u>			<u>142</u>
NaCl	58.46	<u>1</u>			<u>59</u>

REMARKS \_\_\_\_\_

435 722 5727

**UNICHEM**

A Division of BJ Services

P.O. Box 217  
Roosevelt, Utah 84066Office (435) 722-5068  
Fax (435) 722-5727

Attachment F-1

**WATER ANALYSIS REPORT**Company **INLAND PRODUCTION COMPANY**

Address

Date **8-19-99**Source **TAR SANDS 7-28-8-17**Date Sampled **8-18-99**

Analysis No. \_\_\_\_\_

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>9.3</u>		
2. H <sub>2</sub> S (Qualitative)	<u>0</u>		
3. Specific Gravity	<u>1.018</u>		
4. Dissolved Solids		<u>22,503</u>	
5. Alkalinity (CaCO <sub>3</sub> )	CO <sub>3</sub>	<u>0</u>	÷ 30 <u>0</u> CO <sub>3</sub>
6. Bicarbonate (HCO <sub>3</sub> )	HCO <sub>3</sub>	<u>1,500</u>	÷ 61 <u>25</u> HCO <sub>3</sub>
7. Hydroxyl (OH)	OH	<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)	Cl	<u>12,400</u>	÷ 35.5 <u>349</u> Cl
9. Sulfates (SO <sub>4</sub> )	SO <sub>4</sub>	<u>0</u>	÷ 48 <u>0</u> SO <sub>4</sub>
10. Calcium (Ca)	Ca	<u>6</u>	÷ 20 <u>0</u> Ca
11. Magnesium (Mg)	Mg	<u>4</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO <sub>3</sub> )		<u>30</u>	
13. Total Iron (Fe)		<u>0.7</u>	
14. Manganese		<u>0</u>	
15. Phosphate Residuals			

\*Milli equivalents per liter

**PROBABLE MINERAL COMPOSITION**

<u>0</u>	Ca	←	HCO <sub>3</sub>	<u>25</u>
<u>0</u>	Mg	←	SO <sub>4</sub>	<u>0</u>
<u>374</u>	Na	←	Cl	<u>349</u>

**Saturation Values****Distilled Water 20°C**CaCO<sub>3</sub>

13 Mg/l

CaSO<sub>4</sub> · 2H<sub>2</sub>O

2,090 Mg/l

MgCO<sub>3</sub>

103 Mg/l

Compound	Eqvly. Wt.	X	Meg/l	=	Mg/l
Ca(HCO <sub>3</sub> ) <sub>2</sub>	81.04				
CaSO <sub>4</sub>	86.07				
CaCl <sub>2</sub>	55.50				
Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17				
MgSO <sub>4</sub>	60.19				
MgCl <sub>2</sub>	47.62				
NaHCO <sub>3</sub>	84.00				
Na <sub>2</sub> SO <sub>4</sub>	71.03				
NaCl	58.46				
		<u>25</u>			<u>2,100</u>
		<u>349</u>			<u>20,403</u>

REMARKS \_\_\_\_\_

Received Time Aug. 19. - 1:29PM

435 722 5727

Attachment F-2

## AQUAMIX SCALING PREDICTIONS

COMPANY: INLAND PRODUCTION CO  
 LOCATION:  
 SYSTEM:

8-19-99

WATER DESCRIPTION:	JOHNSON WATER	TAR SANDS 7-28-8-
P-ALK AS PPM CaCO <sub>3</sub>	0	0
M-ALK AS PPM CaCO <sub>3</sub>	492	2460
SULFATE AS PPM SO <sub>4</sub>	110	0
CHLORIDE AS PPM Cl	35	12400
HARDNESS AS PPM CaCO <sub>3</sub>	0	0
CALCIUM AS PPM CaCO <sub>3</sub>	110	15
MAGNESIUM AS PPM CaCO <sub>3</sub>	90	16
SODIUM AS PPM Na	92	8602
BARIUM AS PPM Ba	0	0
STRONTIUM AS PPM Sr	0	0
CONDUCTIVITY	0	0
TOTAL DISSOLVED SOLIDS	593	22503
TEMP (DEG-F)	100	100
SYSTEM pH	7	9.3

## WATER COMPATIBILITY CALCULATIONS

JOHNSON WATER AND TAR SANDS 7-28-8-

CONDITIONS: pH=8.2. TEMPERATURE ESTIMATED FROM COMPONENT WATERS.

WATER ONE IS JOHNSON WATER

DEG-F <i>of water</i>	STIFF DAVIS CaCO <sub>3</sub> INDEX	lbs/1000 BBL EXCESS CaCO <sub>3</sub>	mg/l BaSO <sub>4</sub> IN EXCESS OF SATURATION	mg/l SrO <sub>4</sub> IN EXCESS OF SATURATION	mg/l Gypsum IN EXCESS OF SATURATION
100	1.01	33	0	0	0
90	1	31	0	0	0
80	.95	27	0	0	0
70	.88	24	0	0	0
60	.78	20	0	0	0
50	.67	16	0	0	0
40	.58	13	0	0	0
30	.49	10	0	0	0
20	.38	6	0	0	0
10	.22	3	0	0	0
0	-.01	0	0	0	0

**Attachment "G"**

**Tar Sands #7-28-8-17  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient	Pmax
Top	Bottom			(psi/ft)	
5904	6003	5954	1850	0.744	1822
5232	5246	5239	2420	0.895	2405
5052	5061	5057	2350	0.898	2337
4546	4596	4571	2000	0.871	1979
				<b>Minimum</b>	<u>1822</u>

Calculation of Maximum Surface Injection Pressure

$$P_{max} = (\text{Frac Grad} - (0.433 \times 1.005)) \times \text{Depth of Top Perf}$$

where pressure gradient for the fresh water is .433 psi/ft and  
specific gravity of the injected water is 1.005.

$$\text{Frac Gradient} = (\text{ISIP} + (0.433 \times \text{Avg. Depth})) / \text{Avg. Depth}$$



Attachment G-1

## DAILY COMPLETION REPORT

WELL NAME Tar Sands Federal 7-28 Report Date 7/30/98 Completion Day 3  
Present Operation Perf C sds. Rig Flint #4357

## WELL STATUS

Surf Csg: 8-5/8 @ 304' KB Liner @ Prod Csg 5-1/2 @ 6176 Csg PBTD 6127  
Tbg: Size 2-7/8 Wt 6.5# Grd J-55 (A&B) Pkr/EOT @ BP/Sand PBTD:

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
CP	5904-06'	4/8			
CP	5924-32'	4/32			
CP	5999-6003'	4/16			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 7/29/98 SITP: 0 SICP: 25

Bleed gas off csg. IFL @ 5000'. Made 3 swab runs, rec 12 BTF w/tr oil. FFL @ 5600'. TOH w/tbg. NU isolation tool. RU BJ Services & frac CP sds w/110,000# 20/40 sd in 564 bbls Viking I-25 fluid. Perfs broke dn @ 2420 psi. Treated @ ave press of 1335 psi w/ave rate of 29.9 BPM. ISIP: 1850 psi, 5 min: 1750 psi. Flowback on 12/64 choke for 6 hrs & died. Rec 247 BTF (est 44% of load). SIFN w/est 317 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered	564	Starting oil rec to date	0
Fluid lost/recovered today	247	Oil lost/recovered today	0
Ending fluid to be recovered	317	Cum oil recovered	0
IFL 5000 FFL 5600 FTP		Choke 12/64 Final Fluid Rate	Final oil cut Tr.

## STIMULATION DETAIL

Base Fluid used: Viking I-25 Job Type: Sand Frac  
Company: BJ Services  
Procedure:  
3000 gal of pad  
1000 gal w/1-6 ppg of 20/40 sd  
9000 gal w/6-8 ppg of 20/40 sd  
4892 gal w/8-10 ppg of 20/40 sd  
Flush w/5817 gal of 10# Linear gel

## COSTS

Flint rig	806
BOP	135
Tanks	30
Wtr	750
Frac	20,952
Flowback - super	240
IPC Supervision	200

Max TP	2420	Max Rate	30.5	Total fluid pmpd:	564 bbls
Avg TP	1335	Avg Rate	29.9	Total Prop pmpd:	110,000#
ISIP	1850	5 min	1750	10 min	15 min

Completion Supervisor: Gary Dietz

DAILY COST: \$23,113  
TOTAL WELL COST: \$208,565



Attachment G-1 cont.

## DAILY COMPLETION REPORT

WELL NAME Tar Sands Federal 7-28 Report Date 7/31/98 Completion Day 4  
Present Operation Frac C sds. Rig Flint #4357

## WELL STATUS

Surf Csg: 8-5/8 @ 304' KB Liner @ 5-1/2 Prod Csg 5-1/2 @ 6176 Csg PBTD 6127  
Tbg: Size 2-7/8 Wt 6.5# Grd J-55 (A&B) Pkr/EOT @ 5323 BP/Sand PBTD: 5343

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
C	5232-46'	4/56			
CP	5904-06'	4/8			
CP	5924-32'	4/32			
CP	5999-6003'	4/16			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 7/30/98 SITP: SICP: 0  
TIH w/5-1/2" RBP & tbg. Set plug @ 5343'. Press test plug to 3000 psi. Swab FL dn to 4700'. Rec 101 BTF. TOH w/tbg & RH. RU Schlumberger & perf C sds @ 5232-46' w/4 jsp. TIH w/tbg to 5323'. IFL @ 4700'. Made 3 swab runs, rec 10 BTF w/tr oil. FFL @ 5200'. SIFN w/est 206 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered	317	Starting oil rec to date	0
Fluid lost/recovered today	111	Oil lost/recovered today	0
Ending fluid to be recovered	206	Cum oil recovered	0
IFL 4700 FFL 5200 FTP		Choke	
		Final Fluid Rate	
		Final oil cut	Tr.

## STIMULATION DETAIL

Base Fluid used: Job Type:

Company:

Procedure:

## COSTS

Flint rig	1,611
BOP	135
Tanks	30
Wtr disp	300
RBP	600
Perfs	1,224
IPC Supervision	200

Max TP Max Rate Total fluid pmpd:

Avg TP Avg Rate Total Prop pmpd:

ISIP 5 min 10 min 15 min

Completion Supervisor: Gary Dietz

DAILY COST: \$4,100

TOTAL WELL COST: \$212,665



Attachment G-1 cont.

## DAILY COMPLETION REPORT

WELL NAME Tar Sands Federal 7-28 Report Date 8/1/98 Completion Day 5  
Present Operation Perf D sds. Rig Flint #4357

## WELL STATUS

Surf Csg: 8-5/8 @ 304' KB Liner @ Prod Csg 5-1/2 @ 6176 Csg PBD: 6127  
Tbg: Size 2-7/8 Wt 6.5# Grd J-55 (A&B) Pkr/EOT @ BP/Sand PBD: 5343

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
C	5232-46'	4/56			
CP	5904-06'	4/8			
CP	5924-32'	4/32			
CP	5999-6003'	4/16			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 7/31/98 SITP: 50 SICP: 0  
IFL @ 4900'. Made 2 swab runs, rec 4 BTF w/5% oil. FFL @ 5100'. TOH w/tbg. NU isolation tool. RU BJ Services & frac C sds w/104,500# 20/40 sd in 531 bbls Viking I-25 fluid. Perfs broke dn @ 2920 psi. Treated @ ave press of 1620 psi w/ave rate of 27.8 BPM. ISIP: 2420 psi, 5 min: 2200 psi. Flowback on 12/64 choke for 3 hrs & died. Rec 130 BTF (est 24% of load). SIFN w/est 603 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered	206	Starting oil rec to date	0
Fluid lost/recovered today	397	Oil lost/recovered today	0
Ending fluid to be recovered	603	Cum oil recovered	0
IFL 4900 FFL 5100 FTP		Choke 12/64 Final Fluid Rate	Final oil cut 5%

## STIMULATION DETAIL

Base Fluid used: Viking I-25 Job Type: Sand Frac  
Company: BJ Services  
Procedure:  
3000 gal of pad  
1000 gal w/1-6 ppg of 20/40 sd  
8000 gal w/6-8 ppg of 20/40 sd  
5157 gal w/8-10 ppg of 20/40 sd  
Flush w/5145 gal of 10# Linear gel

## COSTS

Flint rig	678
BOP	135
Tanks	30
Wtr	700
Frac	20,748
Flowback - super	120
Wtr disp	350
IPC Supervision	200

Max TP	2920	Max Rate	28.4	Total fluid pmpd:	531 bbls
Avg TP	1620	Avg Rate	27.8	Total Prop pmpd:	104,500#
ISIP	2420	5 min	2200	10 min	15 min
Completion Supervisor:	Gary Dietz				

DAILY COST:	\$22,961
TOTAL WELL COST:	\$235,626



Attachment G-1 cont.

## DAILY COMPLETION REPORT

WELL NAME Tar Sands Federal 7-28 Report Date 8/2/98 Completion Day 6  
Present Operation Frac D sds. Rig Flint #4357

## WELL STATUS

Surf Csg: 8-5/8 @ 304' KB Liner @ Prod Csg 5-1/2 @ 6176 Csg PBTD 6127  
Tbg: Size 2-7/8 Wt 6.5# Grd J-55 (A&B) PK/EOT @ 5100 BP/Sand PBTD: 5160

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
D	5052-61'	4/36	CP	5999-6003'	4/16
C	5232-46'	4/56			
CP	5904-06'	4/8			
CP	5924-32'	4/32			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 8/1/98 SITP: SICP: 0

Bleed off est 4 bbls frac fluid. TIH w/RH & tbg. Tag sd @ 4973'. CO sd to RBP @ 5343'. Release plug. Pull up & reset @ 5160'. Press test plug to 3000 psi. Swab FL dn to 4500'. Rec 97 BTF. TOH w/tbg. RU Schlumberger & perf D sds @ 5052-61' w/4 jsfp. TIH w/tbg to 5100'. IFL @ 4500'. Made 2 swab runs, rec 8 BTF w/tr oil. FFL @ 4900'. SIFN w/est 494 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered	603	Starting oil rec to date	0
Fluid lost/recovered today	109	Oil lost/recovered today	0
Ending fluid to be recovered	494	Cum oil recovered	0
IFL 4500 FFL 4900 FTP		Choke	
		Final Fluid Rate	
		Final oil cut	Tr.

## STIMULATION DETAIL

Base Fluid used: Job Type:  
Company:   
Procedure:

## COSTS

Flint rig	1,739
BOP	135
Tanks	30
Wtr disp	350
RBP (zone chg)	250
Perfs	894
IPC Supervision	200

Max TP Max Rate Total fluid pmpd:  
Avg TP Avg Rate Total Prop pmpd:  
ISIP 5 min 10 min 15 min

Completion Supervisor: Gary Dietz

DAILY COST: \$3,598  
TOTAL WELL COST: \$239,224





Attachment G-1 cont

## DAILY COMPLETION REPORT

WELL NAME Tar Sands Federal 7-28 Report Date 8/4/98 Completion Day 7  
Present Operation Perf GB sds. Rig Flint #4357

## WELL STATUS

Surf Csg: 8-5/8 @ 304' KB Liner @ Prod Csg 5-1/2 @ 6176 Csg PBTD 6127  
Tbg: Size 2-7/8 Wt 6.5# Grd J-55 (A&B) Pkr/EOT @ BP/Sand PBTD: 5160

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
D	5052-61'	4/36	CP	5999-6003'	4/16
C	5232-46'	4/56			
CP	5904-06'	4/8			
CP	5924-32'	4/32			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 8/3/98 SITP: 25 SICP: 25

Bleed gas off tbg & csg. IFL @ 2200'. Made 7 swab runs, rec 52 BTF w/tr oil. FFL @ 4000'. TOH w/tbg. NU isolation tool. RU BJ Services & frac D sds w/93,700# 20/40 sd in 500 bbls Viking I-25 fluid. Perfs broke dn @ 2230 psi. Treated @ ave press of 1580 psi w/ave rate of 26.3 BPM. ISIP: 2350 psi, 5 min: 1860 psi. Flowback on 12/64 choke for 3 hrs & died. Rec 145 BTF (est 29% of load). SIFN w/est 797 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered	494	Starting oil rec to date	0
Fluid lost/recovered today	303	Oil lost/recovered today	0
Ending fluid to be recovered	797	Cum oil recovered	0
IFL 2200 FFL 4000 FTP		Choke 12/64 Final Fluid Rate	Final oil cut Tr.

## STIMULATION DETAIL

Base Fluid used: Viking I-25 Job Type: Sand Frac  
Company: BJ Services  
Procedure: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## COSTS

Flint rig	1,226
BOP	135
Tanks	30
Wtr	650
Frac	19,735
Flowback - super	120
IPC Supervision	200
Wtr disp	350

Max TP	2719	Max Rate	26.7	Total fluid pmpd:	500 bbls
Avg TP	1580	Avg Rate	26.3	Total Prop pmpd:	93,700#
ISIP	2350	5 min	1860	10 min	15 min
Completion Supervisor:	Gary Dietz				

DAILY COST:	\$22,446
TOTAL WELL COST:	\$261,670



Attachment G-1 cont

## DAILY COMPLETION REPORT

WELL NAME Tar Sands Federal 7-28 Report Date 8/5/98 Completion Day 8  
Present Operation Frac GB sds. Rig Flint #4357

## WELL STATUS

Surf Csg: 8-5/8 @ 304' KB Liner @ Prod Csg 5-1/2 @ 6176 Csg PBTD 6127  
Tbg: Size 2-7/8 Wt 6.5# Grd J-55 (A&B) Pkr EOT @ 4775 BP/Sand PBTD: 4837

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB	4546-55'	4/36	CP	5904-06'	4/8
GB	4592-96'	4/16	CP	5924-32'	4/32
D	5052-61'	4/36	CP	5999-6003'	4/16
C	5232-46'	4/56			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 8/4/98 SITP: SICP: 50

Bleed off est 5 bbls frac fluid. TIH w/RH & tbg. Tag sd @ 4875'. CO sd to RBP @ 5160'. Release plug. Pull up & reset @ 4837'. Press test plug to 3000 psi. Swab FL dn to 4000'. Rec 86 BTF. TOH w/tbg. RU Schlumberger & perf GB sds @ 4546-55' & 4592-96' w/4 jspf. TIH w/tbg to 4775'. IFL @ 4000'. Made 3 swab runs, rec 10 BTF w/tr oil. FFL @ 4500'. SIFN w/est 696 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered	797	Starting oil rec to date	0
Fluid lost/recovered today	101	Oil lost/recovered today	0
Ending fluid to be recovered	696	Cum oil recovered	0
IFL 4000 FFL 4500 FTP		Choke	
		Final Fluid Rate	
		Final oil cut	Tr.

## STIMULATION DETAIL

Base Fluid used: Job Type:

Company:

Procedure:

## COSTS

Flint rig	1,586
BOP	135
Tanks	30
Wtr disp	150
RBP (zone chg)	250
Perfs	1,193
IPC Supervision	200

Max TP Max Rate Total fluid pmpd:

Avg TP Avg Rate Total Prop pmpd:

ISIP 5 min 10 min 15 min

Completion Supervisor: Gary Dietz

DAILY COST: \$3,544

TOTAL WELL COST: \$265,214



Attachment G-1 cont

## DAILY COMPLETION REPORT

WELL NAME Tar Sands Federal 7-28 Report Date 8/6/98 Completion Day 9  
Present Operation Pull plug. CO PBTD. Swab well. Rig Flint #4357

## WELL STATUS

Surf Csg: 8-5/8 @ 304' KB Liner @ Prod Csg 5-1/2 @ 6176 Csg PBTD 6127  
Tbg: Size 2-7/8 Wt 6.5# Grd J-55 (A&B) Pkr/EOT @ BP/Sand PBTD: 4837

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB	4546-55'	4/36	CP	5904-06'	4/8
GB	4592-96'	4/16	CP	5924-32'	4/32
D	5052-61'	4/36	CP	5999-6003'	4/16
C	5232-46'	4/56			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 8/5/98 SITP: 0 SICP: 0  
IFL @ 3000'. Made 5 swab runs, rec 33 BTF w/tr oil. FFL @ 4500'. TOH w/tbg. NU isolation tool. RU BJ Services & frac GB sds w/104,500# 20/40 s din 513 bbls Viking I-25 fluid. Perfs broke dn @ 3200 psi. Treated @ ave press of 1700 psi w/ave rate of 28.8 BPM. ISIP: 2000 psi, 5 min: 1640 psi. Flowback on 12/64

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered	696	Starting oil rec to date	0
Fluid lost/recovered today	333	Oil lost/recovered today	0
Ending fluid to be recovered	1029	Cum oil recovered	0
IFL <u>3000</u> FFL <u>4500</u> FTP		Choke <u>12/64</u> Final Fluid Rate	Final oil cut Tr.

## STIMULATION DETAIL

Base Fluid used: Viking I-25 Job Type: Sand Frac  
Company: BJ Services  
Procedure:  
3000 gal of pad  
1000 gal w/1-6 ppg of 20/40 sd  
8000 gal w/6-8 ppg of 20/40 sd  
5136 gal w/8-10 ppg of 20/40 sd  
Flush w/4410 gal of 10# Linear gel.

## COSTS

Flint rig	792
BOP	135
Tanks	30
Wtr	600
Frac	20,504
Flowback - super	140
IPC Supervision	200

Max TP	<u>3200</u>	Max Rate	<u>28.9</u>	Total fluid pmpd:	<u>513 bbls</u>
Avg TP	<u>1700</u>	Avg Rate	<u>28.8</u>	Total Prop pmpd:	<u>104,500#</u>
ISIP	<u>2000</u>	5 min	<u>1640</u>	10 min	<u>15 min</u>
Completion Supervisor:	<u>Gary Dietz</u>				

DAILY COST:	\$22,401
TOTAL WELL COST:	\$287,615

## **ATTACHMENT H**

### **WORK PROCEDURE FOR PLUGGING AND ABANDONMENT**

1.     **Plug #1**           Set 249' plug from 5804'-6053' with 39 sxs Class "G" cement.
2.     **Plug #2**           Set 164' plug from 5132'-5296' with 29 sxs Class "G" cement.
3.     **Plug #3**           Set 159' plug from 4952'-5111' with 29 sxs Class "G" cement.
4.     **Plug #4**           Set 200' plug from 4446'-4646' with 35 sxs Class "G" cement.
5.     **Plug #5**           Set 200' plug from 2000'-2200' with 25 sxs Class "G" cement.
6.     **Plug #6**           Set 100' plug from 243'-343' (50' on either side of casing shoe) with 15 sxs  
Class "G" cement.
7.     **Plug #7**           Set 50' plug from surface with 10 sxs Class "G" cement.
8.                        Pump 50 sxs Class "G" cement down the 8-5/8" x 5-1/2" annulus to cement  
293' to surface.

# Tar Sands Federal #7-28

Spud Date: 6/22/98  
Put on Production: 8/8/98  
GL: 5196' KB: 5206'

Initial Production: 112 BOPD,  
196 MCFPD, 12 BWPD

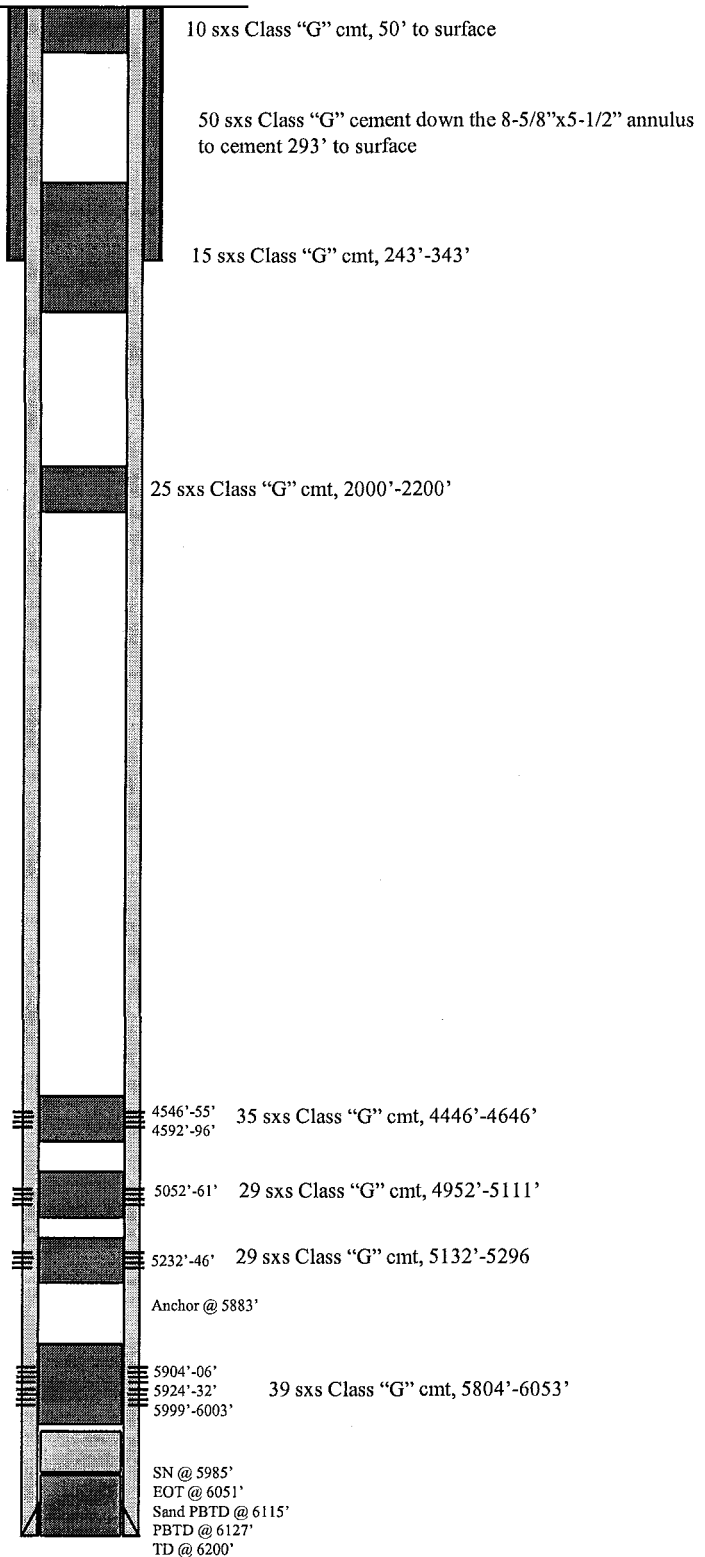
## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (292.33')  
DEPTH LANDED: 292.83' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Class G cmt, est 4.5 bbls to surf.

## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 145 jts. (6165')  
DEPTH LANDED: 6176' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 360 sxs Premium Lite mixed & 400 sxs Class G  
CEMENT TOP AT: Surface per CBL

## Proposed P&A Wellbore Diagram



**Inland Resources Inc.**

**Tar Sands Federal #7-28**

2237 FNL 2031 FEL

SWNE Section 28-T8S-R17E

Duchesne Co, Utah

API #43-013-32069; Lease #UTU-76241



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Kathleen Clarke  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

December 21, 1999

Inland Production Company  
410 Seventeenth Street, Suite 700  
Denver, Colorado 80202

Re: Boundary Unit Well: Tar Sands Federal 7-28-8-17, Section 28, Township 8 South,  
Range 17 East, Duchesne County, Utah

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Inland Production Company.
3. A casing\tubing pressure test shall be conducted prior to commencing injection.

If you have any questions regarding this approval or the necessary requirements, please contact Brad Hill or Dan Jarvis at this office.

Sincerely,

John R. Baza

Associate Director, Oil and Gas

cc: Dan Jackson, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Inland Production Company, Myton

DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT  
STATEMENT OF BASIS**

**Applicant:** Inland Production Company

**Well:** Tar Sands Fed. 7-28-8-17

**Location:** 28/8S/17E

**API:** 43-013-32069

**Ownership Issues:** The proposed well is located on Federal (BLM) land. The well is located in the Boundary Unit. Lands in the one-half mile radius of the well are fee surface and BLM minerals. Inland and various individuals hold the leases in the unit. Inland has provided a list of all surface, mineral and lease holders in the half-mile radius. Inland is the operator of the Boundary Unit. Inland has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

**Well Integrity:** The proposed well has surface casing set at 293 feet and is cemented to surface. A 5 ½ inch production casing is set at 6176 feet and has a cement bond better than an 80% bond over most of the cemented interval up to 3400 feet. A 2 7/8 inch tubing with a packer will be set at 4491 feet. A mechanical integrity test will be run on the well prior to injection. There are 8 producing or injection wells in the area of review. All of the wells have adequate casing and cement. No corrective action will be required.

**Ground Water Protection:** According to Technical Publication No. 92 the base of moderately saline water is at a depth of approximately 300 feet. Injection will be limited to the interval between 4546 feet and 6003 feet in the Green River Formation. Information submitted by Inland indicates that the fracture gradient for the 7-28-8-17 well is .744 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1822 psig. The requested maximum pressure is 1822 psig. The anticipated average injection pressure is 1500 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

**Oil/Gas& Other Mineral Resources Protection:** The Board of Oil, Gas & Mining approved the Boundary Unit on August 24, 1992. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with BLM

**Actions Taken and Further Approvals Needed:** A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that Administrative approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Brad Hill Date: 12/21/99



# Your Right To Know!

**RICH J RANCH/OLIEF VOOR**  
12th Annual

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE APPLICATION OF	:	NOTICE OF AGENCY
INLAND PRODUCTION COMPANY FOR	:	ACTION
ADMINISTRATIVE APPROVAL OF 13 WELLS	:	
IN DUCHESNE COUNTY, UTAH, AS CLASS	:	CAUSE NO. UIC-244
II INJECTION WELLS. THE PROPOSED	:	
INJECTION WELLS ARE LOCATED IN:	:	
SEC 32, TWP 8 S, RNG 16 E; SECS 28, 29,	:	
31 & 33, TWP 8 S, RNG 17 E; SEC 12, TWP 9	:	
S, RNG 15 E; SEC 6 & 12, TWP 9 S, R 16 E;	:	
SEC 15, TWP 9 S, R 17 E; S.L.M.	:	

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

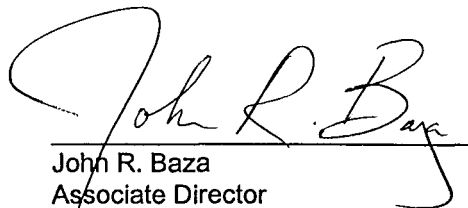
Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Inland Production Company for administrative approval of the following wells as Class II injection wells: Wells Draw Unit Wells: State 14-32-8-16, 23-32-8-16 & 32-32-8-16 wells, located in Sec 32, Twp 8 S, Rng 16 E; Ashley Unit Well: Ashley Federal 1-12-9-15 well, located in Sec 12, Twp 9 S, R 15 E; Boundary Unit Wells: Tar Sands Federal 5-29-8-17, 1-33-8-17 & Tar Sands 7-28-8-17 wells, located in Secs 28, 29 & 33, Twp 8 S, R 17 E; Jonah Unit Well: Monument Federal 42-12J-9-16 well, located in Sec 12, Twp 9 S, Rng 16 E; Lone Tree Unit Wells: South Pleasant Valley 7-15-9-17 & Pleasant Valley 21-15H-9-17 wells, located in Sec 15, Twp 9 S, Rng 17 E; Sand Wash Unit Wells: Tar Sands 5-31-8-17 & Tar Sands Federal 13-29-8-17 wells, located in Sec 29 & 31, Twp 8 S, Rng 17 E; West Point Unit Well: Monument Federal 43-6-9-16 well, located in Sec 6, Twp 9 S, Rng 16 E, S.L.M., Duchesne County, Utah. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The Green River Formation will be selectively perforated for water injection. The maximum injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by Inland Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 8<sup>th</sup> day of September 1999.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

  
John R. Baza  
Associate Director

STATE OF UTAH  
DIVISION OF OIL GAS AND MINING

## INJECTION WELL - PRESSURE TEST

Well Name: <u>TSE #7-28-8-17</u>	API Number: <u>43-013-32069</u>
Qtr/Qtr: <u>SW/NE</u> Section: <u>28</u>	Township: <u>8S</u> Range: <u>17E</u>
Company Name: <u>INLAND PRODUCTION COMPANY</u>	
Lease: State <u>      </u> Fee <u>      </u>	Federal <u>X</u> Indian <u>      </u>
Inspector: <u>Donna Logan</u>	Date: <u>11/24/00</u>

## Initial Conditions:

Tubing - Rate:                      Pressure: 510 psiCasing/Tubing Annulus - Pressure: 1240 psi

## Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	<u>1240 PSI</u>	<u>510 PSI</u>
5	<u>1240 "</u>	<u>510 PSI</u>
10	<u>1240 "</u>	<u>510</u>
15	<u>1240 "</u>	<u>510</u>
20	<u>1240 "</u>	<u>510</u>
25	<u>1240 "</u>	<u>510</u>
30	<u>1240 "</u>	<u>510</u>

Results: Pass/Fail

## Conditions After Test:

Tubing Pressure: 510 psiCasing/Tubing Annulus Pressure: 1240 psi

COMMENTS: Tested for Conversion. Tested @ 11:15 AM.  
Also RFLWD test on Batten Chart.



Operator Representative

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORKLE APPROVED  
Budget Bureau No. 1001-0135  
Expires March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

*SUBMIT IN TRIPLICATE*

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Injection Well

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**RT 3 Box 3630 Myton Ut 84052, (435) 646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**2237 FNL 2031 FEL SW/NE Section 28, T08S R17E**

5. Lease Designation and Serial No.

**U-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or C.A. Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**TAR SANDS FEDERAL 7-28-8-17**

9. API Well No.

**43-013-32069**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other \_\_\_\_\_

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☒ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The subject well was converted from a producing to an injection well on 11/22/00. The rods and tubing anchor were removed and a packer was inserted in the bottom hole assembly at 4462'. On 11/24/00 Mr. Dan Jackson w/ EPA and Mr. Dennis Ingram with the State DOGM were contacted and gave approval to conduct a MIT on the casing -tubing annulus. On 11/24/00 the casing was pressured to 1240 psi with no loss of pressure charted in a 1/2 hour test. Dennis Ingram witness the test. The well is shut-in and waiting on permission to inject.

14. I hereby certify that the foregoing is true and correct

Signed

Krishna Russell  
Krishna Russell

Title

Production Clerk

Date

11/28/00

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

**CC: UTAH DOGM**



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Kathleen Clarke  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-244

**Operator:** Inland Production Company

**Well:** Tar Sands Federal 7-28

**Location:** Section 28, Township 8 South, Range 17 East, Duchesne County

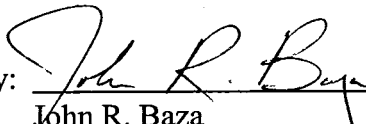
**API No.:** 43-013-32069

**Well Type:** Enhanced Recovery (waterflood)

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on December 21, 1999.
2. Maximum Allowable Injection Pressure: 1822 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (4546 feet - 6003 feet)

Approved by:

  
John R. Baza  
Associate Director, Oil And Gas

11/30/2000  
Date

cc: Dan Jackson Environmental Protection Agency  
Bureau of Land Management, Vernal  
Inland Production Company, Myton

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐

Oil  
Well

☐

Gas  
Well

☒

Other Injector

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**2237 FNL 2031 FEL SW/NE Section 28, T08S R17E**

5. Lease Designation and Serial No.

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**TAR SANDS FEDERAL 7-28**

9. API Well No.

**43-013-32069**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐

Notice of Intent

☒

Subsequent Report

☐

Final Abandonment Notice

TYPE OF ACTION

☐

Abandonment

☐

Recompletion

☐

Plugging Back

☐

Casing Repair

☐

Altering Casing

☒

Other

**Report of first injection**

☐

Change of Plans

☐

New Construction

☐

Non-Routine Fracturing

☐

Water Shut-Off

☐

Conversion to Injection

☐

Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The above referenced well was put on injection at 1:00 p.m. on 12/18/00.

**RECEIVED**

**DEC 19 2000**

**DIVISION OF  
OIL, GAS AND MINING**

14. I hereby certify that the foregoing is true and correct

Signed

*Martha Hall*  
Martha Hall

Title

Office Manager

Date

12/18/00

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

STATE OF UTAH

## DIVISION OF OIL, GAS, AND MINING

1. **SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.

Use "APPLICATION FOR PERMIT TO DRILL OR DEEPEN" form for such proposals.

OIL ☐ GAS ☐ OTHER ☒ **Injection Well**

2. NAME OF OPERATOR  
**INLAND PRODUCTION COMPANY**

3. ADDRESS AND TELEPHONE NUMBER  
**Rt. 3 Box 3630, Myton Utah 84052  
435-646-3721**

4. LOCATION OF WELL  
  
Footages **2237 FNL 2031 FEL**  
  
QQ, SEC, T, R, M: **SW/NE Section 28, T08S R17**

5. LEASE DESIGNATION AND SERIAL NO.  
**UTU-76241**

6. IF INDIAN, ALLOTTEE OR TRIBAL NAME  
  
**N/A**

7. UNIT AGREEMENT NAME  
  
**GREATER BOUNDARY**

8. WELL NAME and NUMBER  
**TAR SANDS FEDERAL 7-28-8-17**

9. API NUMBER  
**43-013-32069**

10. FIELD AND POOL, OR WILDCAT  
  
**MONUMENT BUTTE**

COUNTY **DUCHESNE**  
STATE **UTAH**

## 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

## NOTICE OF INTENT:

(Submit in Duplicate)

- |  |   |
|--|---|
| <input type="checkbox"/> ABANDON                   | <input type="checkbox"/> NEW CONSTRUCTION     |
| <input type="checkbox"/> REPAIR CASING             | <input type="checkbox"/> PULL OR ALTER CASING |
| <input type="checkbox"/> CHANGE OF PLANS           | <input type="checkbox"/> RECOMPLETE           |
| <input type="checkbox"/> CONVERT TO INJECTION      | <input type="checkbox"/> REPERFORATE          |
| <input type="checkbox"/> FRACTURE TREAT OR ACIDIZE | <input type="checkbox"/> VENT OR FLARE        |
| <input type="checkbox"/> MULTIPLE COMPLETION       | <input type="checkbox"/> WATER SHUT OFF       |
| <input type="checkbox"/> OTHER _____               |   |

## SUBSEQUENT REPORT OF:

(Submit Original Form Only)

- |   |   |
|---|---|
| <input type="checkbox"/> ABANDON*                               | <input type="checkbox"/> NEW CONSTRUCTION     |
| <input type="checkbox"/> REPAIR CASING                          | <input type="checkbox"/> PULL OR ALTER CASING |
| <input type="checkbox"/> CHANGE OF PLANS                        | <input type="checkbox"/> RECOMPLETE           |
| <input type="checkbox"/> CONVERT TO INJECTION                   | <input type="checkbox"/> REPERFORATE          |
| <input type="checkbox"/> FRACTURE TREAT OR ACIDIZE              | <input type="checkbox"/> VENT OR FLARE        |
| <input checked="" type="checkbox"/> OTHER <b>Step Rate Test</b> |   |

DATE WORK COMPLETED \_\_\_\_\_

Report results of Multiple Completion and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\*Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depth for all markers and zones pertinent to this work.)

A step rate test was conducted on the subject well on 7/3/01. Results from the test indicate that the fracture gradient is .684 psi/ft. Therefore, Inland is requesting that the MAIP be changed to 1130 psi.

From 1822

13. NAME & SIGNATURE : Michael Guinn TITLE District Engineer DATE 7/18/01

(This space for State use only)

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

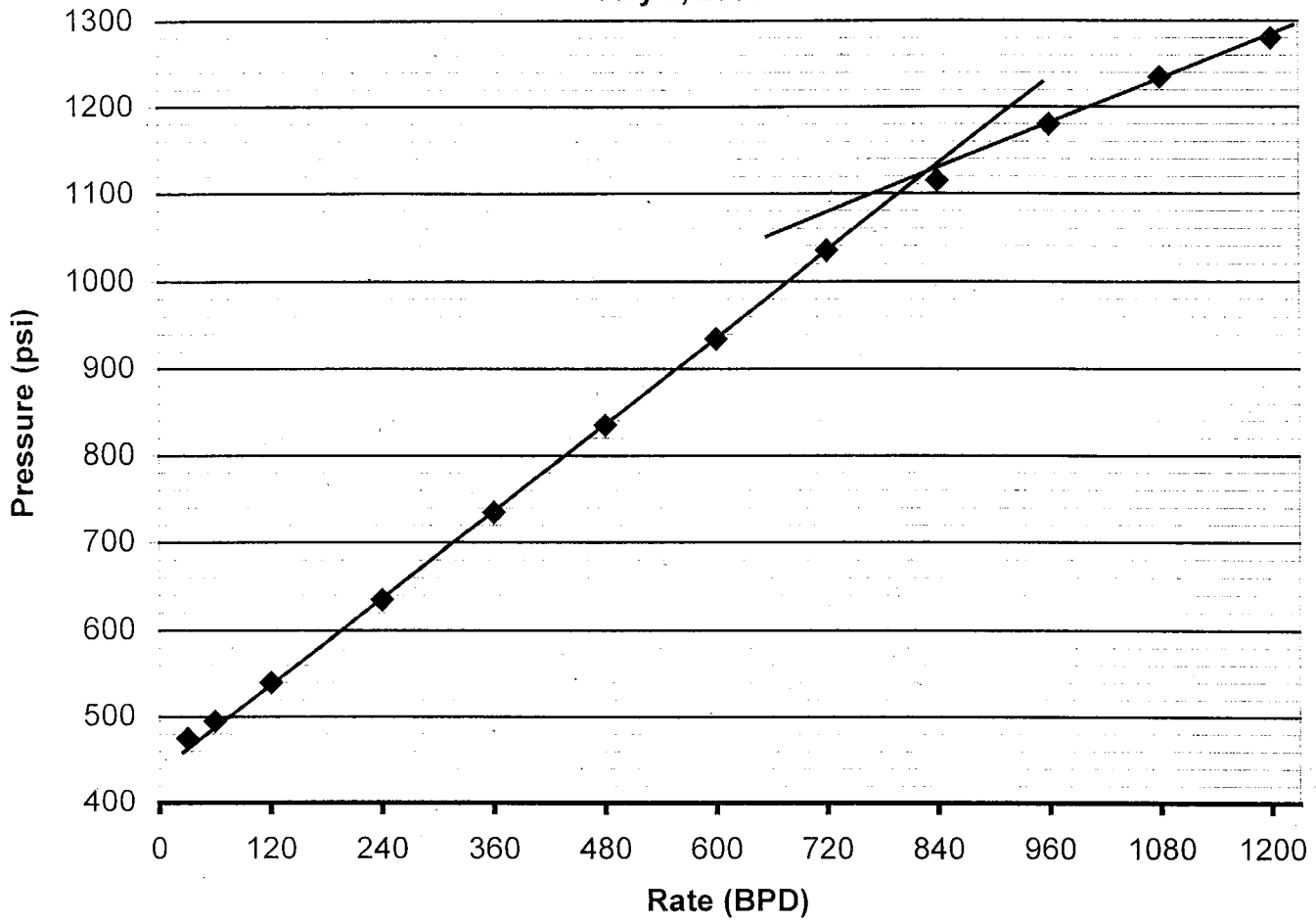
Date: 07-30-01  
By: [Signature]

07-31-01  
CHD

Greater Boundary Unit

Step Rate Test

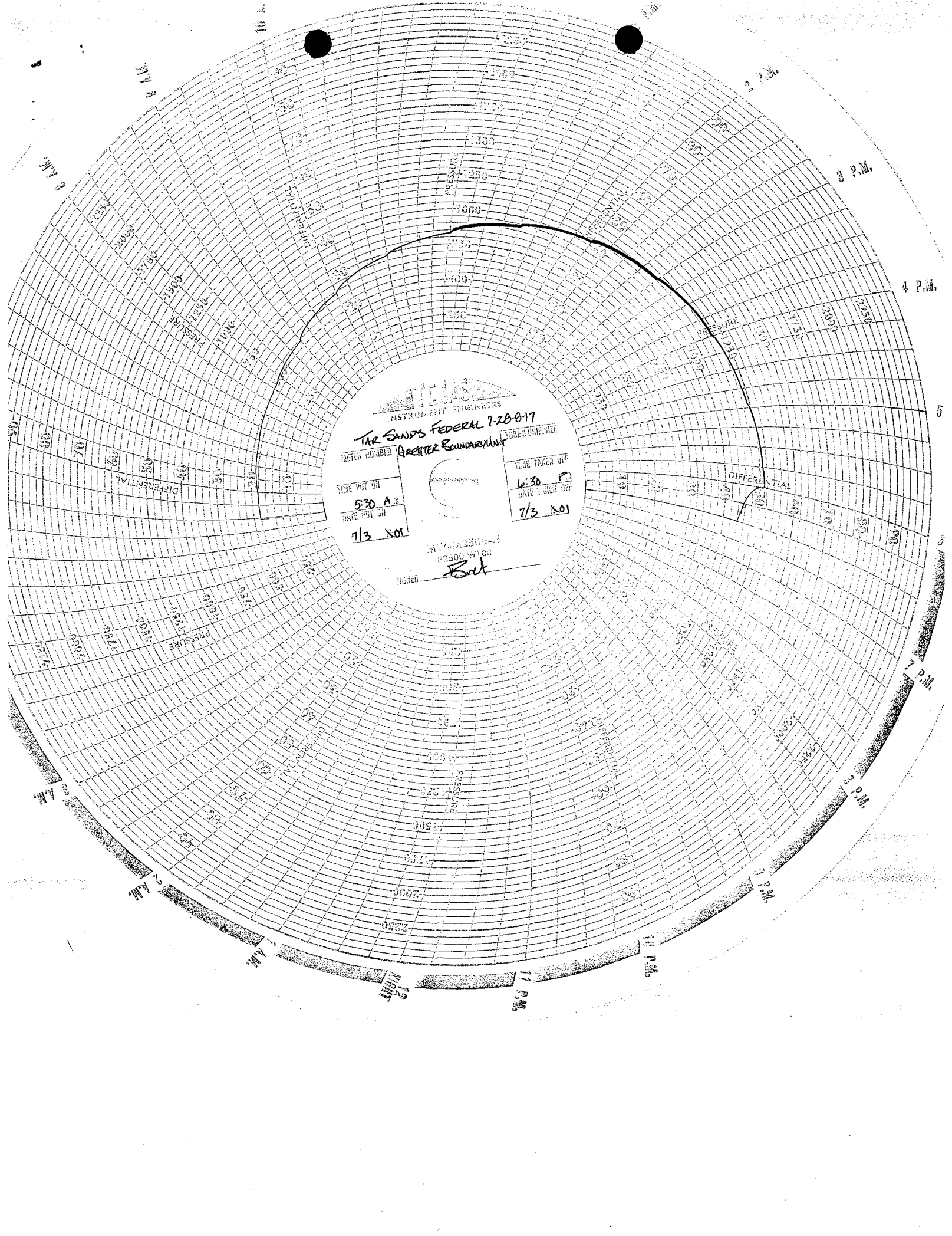
July 3, 2001



Start Pressure: 455 psi  
 Instantaneous Shut In Pressure (ISIP): 1180 psi  
 Top Perforation: 4546 feet  
 Fracture pressure (Pfp): 1130 psi  
 FG: 0.684 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	30	475
2	60	495
3	120	540
4	240	635
5	360	735
6	480	835
7	600	935
8	720	1035
9	840	1115
10	960	1180
11	1080	1235
12	1200	1280





TECHNICAL INSTRUMENT ENGINEERS  
TAR SANDS FEDERAL 7-28-87  
METER NUMBER GREATER BOUNDARY UNIT  
TUBE 2 ONE SIZE  
TIME TAKEN OFF 6:30 P.  
DATE TAKEN OFF 7/3 801  
DATE PUT ON 5:30 A.  
DATE PUT ON 7/3 801  
M77-42300-1  
P2500 W100  
SIGNED Bolt

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, c  
drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL:      OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER      Injection well		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU76241
2. NAME OF OPERATOR: Inland Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630      CITY Myton      STATE UT      ZIP 84052		7. UNIT or CA AGREEMENT NAME: GREATER BOUNDARY
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 2237 FNL 2031 FEL		8. WELL NAME and NUMBER: TAR SANDS FED 7-28-8-17
5. PHONE NUMBER: 435.646.3721		9. API NUMBER: 4301332069
6. QTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SW/NE, 28, T8S, R17E		10. FIELD AND POOL, OR WILDCAT: Monument Butte
7. COUNTY: Duchesne		8. STATE: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Step Rate Test
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  07/16/2004			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

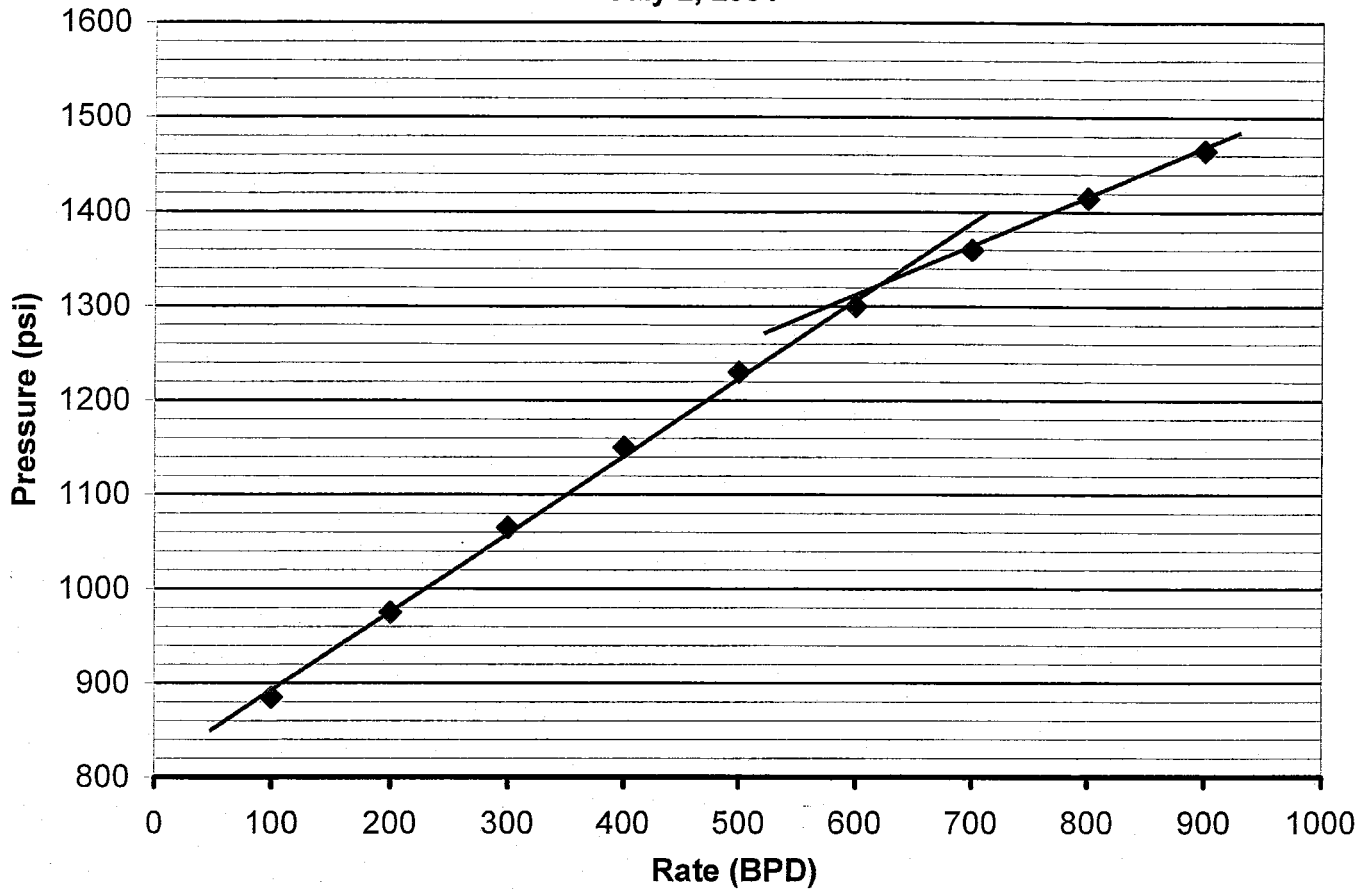
A step rate test was conducted on the subject well on July 2, 2004. Results from the test indicate that the fracture gradient is .727 psi/ft. Therefore, Inland is requesting that the maximum allowable injection pressure (MAIP) be changed to 1325 psi.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

**RECEIVED**  
**JUL 19 2004**  
DIV. OF OIL, GAS & MINING

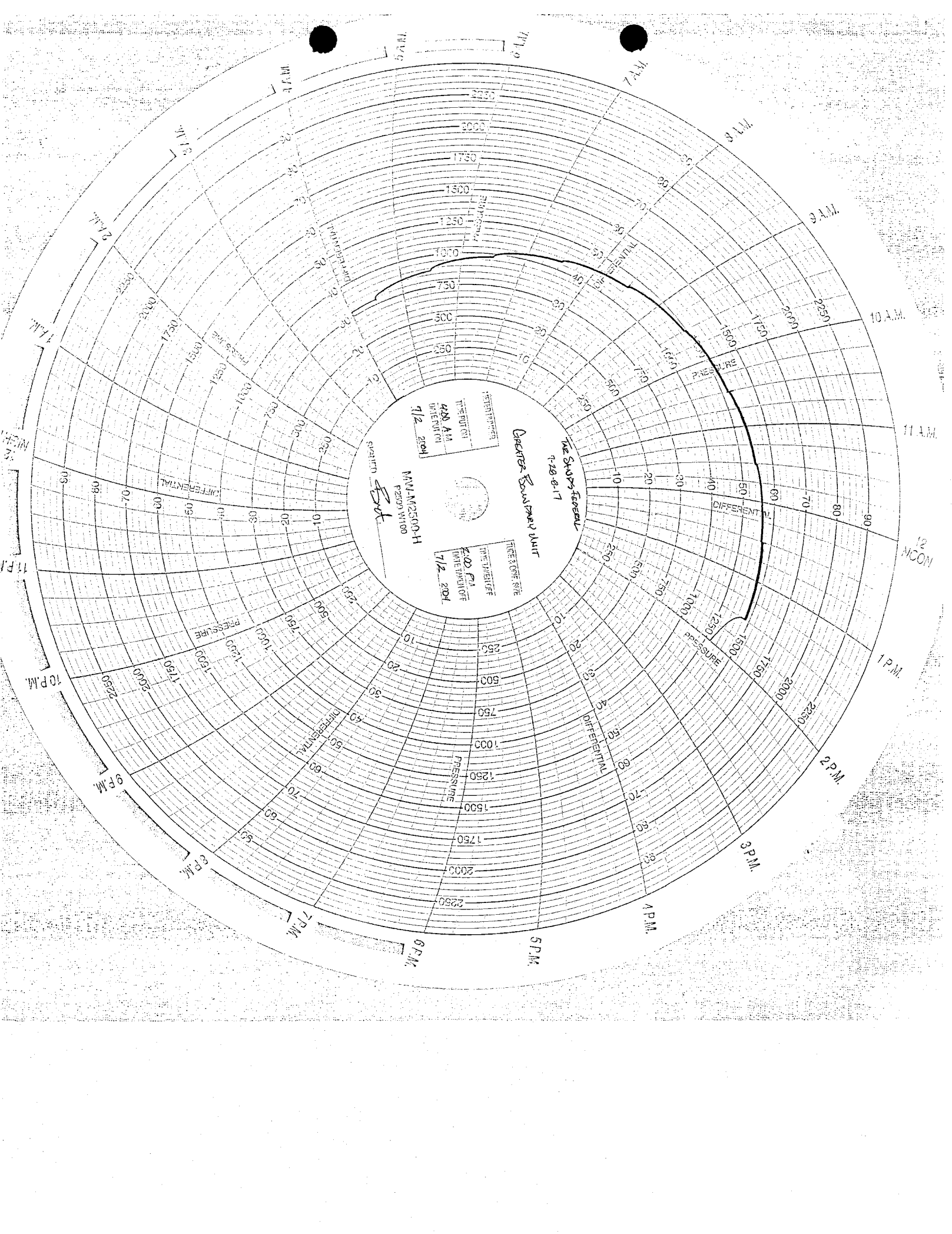
NAME (PLEASE) Mike Guinn	TITLE Engineer
SIGNATURE 	DATE July 16, 2004

**Tar Sands Federal 7-28-8-17**  
**Greater Boundary Unit**  
**Step Rate Test**  
**July 2, 2004**



**Start Pressure:** 790 psi  
**Instantaneous Shut In Pressure (ISIP):** 1435 psi  
**Top Perforation:** 4546 feet  
**Fracture pressure (Pfp):** 1325 psi  
**FG:** 0.727 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	100	885
2	200	975
3	300	1065
4	400	1150
5	500	1230
6	600	1300
7	700	1360
8	800	1415
9	900	1465





# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, UT 84145-0155

<http://www.blm.gov>



IN REPLY REFER TO:

3106

(UT-924)

September 16, 2004

### Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard  
Acting Chief, Branch of  
Fluid Minerals

### Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225  
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114  
Teresa Thompson  
Joe Incardine  
Connie Seare

UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		



## Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company  
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
INLAND PRODUCTION COMPANY

FILED  
In the Office of the  
Secretary of State of Texas  
SEP 02 2004  
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs  
Susan G. Riggs, Treasurer



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

## TRANSFER OF AUTHORITY TO INJECT

Well Name and Number See Attached List		API Number
Location of Well		Field or Unit Name See Attached List
Footage :	County :	Lease Designation and Number
QQ, Section, Township, Range:	State : UTAH	

EFFECTIVE DATE OF TRANSFER: 9/1/2004

## CURRENT OPERATOR

Company: Inland Production Company  
Address: 1401 17th Street Suite 1000  
city Denver state Co zip 80202  
Phone: (303) 893-0102  
Comments:

Name: Brian Harris  
Signature: *Brian Harris*  
Title: Engineering Tech.  
Date: 9/15/2004

## NEW OPERATOR

Company: Newfield Production Company  
Address: 1401 17th Street Suite 1000  
city Denver state Co zip 80202  
Phone: \_\_\_\_\_  
Comments:

Name: Brian Harris  
Signature: *Brian Harris*  
Title: Engineering Tech.  
Date: 9/15/2004

(This space for State use only)

Transfer approved by: *A. Hunt*  
Title: *Permit Services Manager*

Approval Date: 9-20-04

Comments: Note: Indian Country wells will require EPA approval.

(5/2000)

RECEIVED  
SEP 20 2004

DIV. OF OIL, GAS &amp; MINING

## OPERATOR CHANGE WORKSHEET

## ROUTING

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Operator Name Change****Merger**

The operator of the well(s) listed below has changed, effective:

**9/1/2004****FROM: (Old Operator):**

N5160-Inland Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

**TO: ( New Operator):**

N2695-Newfield Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

**CA No.****Unit:****GREATER BOUNDARY (GR)****WELL(S)**

NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
GBU 3-27-8-17	27	080S	170E	4301332224	12391	Federal	WI	A
GBU 5-27-8-17	27	080S	170E	4301332225	12391	Federal	OW	P
GBU 12-27-8-17	27	080S	170E	4301332226	12391	Federal	OW	P
GBU 1-27-8-17	27	080S	170E	4301332228	12391	Federal	OW	P
GBU 2-27-8-17	27	080S	170E	4301332229	12391	Federal	OW	P
GBU 4-27-8-17	27	080S	170E	4301332230	12391	Federal	OW	P
GBU 6-27-8-17	27	080S	170E	4301332231	12391	Federal	OW	P
GBU 7-27-8-17	27	080S	170E	4301332232	12391	Federal	OW	P
GBU 8-27-8-17	27	080S	170E	4301332233	12391	Federal	OW	P
GBU 9-27-8-17	27	080S	170E	4301332234	12391	Federal	OW	P
GBU 10-27-8-17	27	080S	170E	4301332235	12391	Federal	OW	P
GBU 11-27-8-17	27	080S	170E	4301332243	12391	Federal	OW	P
GBU 13-27-8-17	27	080S	170E	4301332244	12391	Federal	OW	P
GBU 14-27-8-17	27	080S	170E	4301332245	12391	Federal	OW	P
TAR SANDS FED 9-28-8-17	28	080S	170E	4301332067	12391	Federal	WI	A
TAR SANDS FED 8-28-8-17	28	080S	170E	4301332068	12391	Federal	OW	P
TAR SANDS FED 7-28-8-17	28	080S	170E	4301332069	12391	Federal	WI	A
TAR SANDS FED 15-28-8-17	28	080S	170E	4301332109	12391	Federal	WI	A
TAR SANDS FED 16-28-8-17	28	080S	170E	4301332111	12391	Federal	OW	P
GREATER BOUNDARY 11-28-8-17	28	080S	170E	4301332134	12391	Federal	WI	A

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/20042. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/20043. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/20054. Is the new operator registered in the State of Utah: YES Business Number: 755627-01435. If **NO**, the operator was contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE  
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

#### DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 2/28/2005
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2005
- Bond information entered in RBDMS on: 2/28/2005
- Fee/State wells attached to bond in RBDMS on: 2/28/2005
- Injection Projects to new operator in RBDMS on: 2/28/2005
- Receipt of Acceptance of Drilling Procedures for APD/New on: waived

#### FEDERAL WELL(S) BOND VERIFICATION:

- Federal well(s) covered by Bond Number: UT 0056

#### INDIAN WELL(S) BOND VERIFICATION:

- Indian well(s) covered by Bond Number: 61BSBDH2912

#### FEE & STATE WELL(S) BOND VERIFICATION:

- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919
- The **FORMER** operator has requested a release of liability from their bond on: n/a\*  
The Division sent response by letter on: n/a

#### LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

#### COMMENTS:

\*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Injection well		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU76241
2. NAME OF OPERATOR: Newfield Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: GREATER BOUNDARY II
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 2237 FNL 2031 FEL		8. WELL NAME and NUMBER: TAR SANDS FED 7-28-8-17
5. PHONE NUMBER: 435.646.3721		9. API NUMBER: 4301332069
6. FIELD AND POOL, OR WILDCAT: Monument Butte		10. FIELD AND POOL, OR WILDCAT: Monument Butte
7. COUNTY: Duchesne		8. STATE: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	SubDate	TYPE OF ACTION
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE		<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 11/02/2005			<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - 5 Year MIT

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 10/04/05 Nathan Wiser with the EPA was contacted concerning the 5-year MIT on the above listed well. Permission was given at that time to perform the test on 11/2/05. On 11/2/05 the csg was pressured up to 1050 psig and charted for 30 minutes with 0 psi pressure loss. The well was injecting during the test. The tbg pressure was 1300 psig during the test. There was not an EPA representative available to witness the test. API# 43-013-32069. EPA# UT 20702-04519

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

NAME (PLEASE PRINT) Callie Duncan TITLE Production Clerk  
SIGNATURE *Callie Duncan* DATE 11/07/2005

(This space for State use only)

**RECEIVED**  
**NOV 08 2005**  
DIV. OF OIL, GAS & MINING

**Mechanical Integrity Test**  
**Casing or Annulus Pressure Mechanical Integrity Test**

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 11/10/21/05  
Test conducted by: Dale Giles  
Others present: \_\_\_\_\_

Well Name: <u>Tar sands Fed. 7-28-8-17</u>	Type: <u>ER SWD</u>	Status: <u>AC TA UC</u>
Field: <u>Greater Boundary unit</u>		
Location: _____	Sec: <u>28 T 8 N 10 R 17 E</u>	W County: <u>Duchesne</u> State: <u>Ut.</u>
Operator: <u>Newfield Production Co.</u>		
Last MIT: <u>1</u>	Maximum Allowable Pressure: <u>1325</u>	PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No  
Initial test for permit? ☐ Yes ☐ No  
Test after well rework? ☐ Yes ☐ No  
Well injecting during test? ☒ Yes ☐ No If Yes, rate: 38 bpd

Pre-test casing/tubing annulus pressure: 0 psig

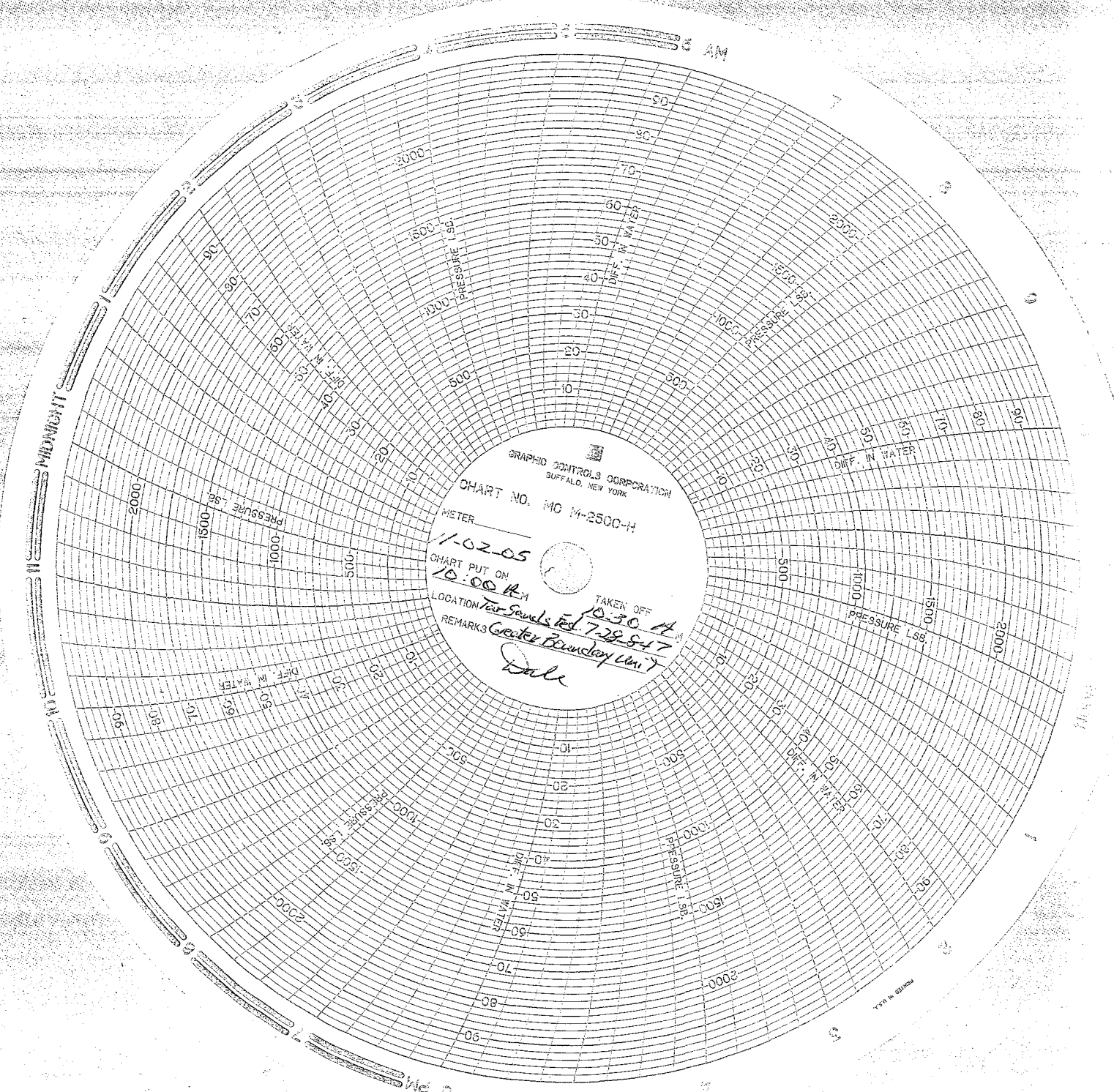
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING</b>	<b>PRESSURE</b>		
Initial Pressure	<u>1300</u> psig	psig	psig
End of test pressure	<u>1300</u> psig	psig	psig
<b>CASING / TUBING</b>	<b>ANNULUS PRESSURE</b>		
0 minutes	<u>1050</u> psig	psig	psig
5 minutes	<u>1050</u> psig	psig	psig
10 minutes	<u>1050</u> psig	psig	psig
15 minutes	<u>1050</u> psig	psig	psig
20 minutes	<u>1050</u> psig	psig	psig
25 minutes	<u>1050</u> psig	psig	psig
30 minutes	<u>1050</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

**MECHANICAL INTEGRITY PRESSURE TEST**

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_



GRAPHIC CONTROLS CORPORATION  
BUFFALO, NEW YORK

CHART NO. MC 14-2500-H

METER

1-02-05

CHART PUT ON  
10:00 AM

LOCATION Fair Sands Rd

REMARKS Center Boundary Unit

Date

TAKEN OFF

10:30 AM

7-28-84

MADE IN U.S.A.

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.</small>		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU76241
1. TYPE OF WELL: <div style="display: flex; justify-content: space-between;"><span>OIL WELL <input type="checkbox"/></span><span>GAS WELL <input type="checkbox"/></span><span>OTHER <input type="checkbox"/> Injection well</span></div>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: GREATER BOUNDARY II
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		8. WELL NAME and NUMBER: TAR SANDS FED 7-28-8-17
3. ADDRESS OF OPERATOR: Route 3 Box 3630      CITY Myton      STATE UT      ZIP 84052		9. API NUMBER: 4301332069
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 2237 FNL 2031 FEL		10. FIELD AND POOL, OR WILDCAT: Monument Butte
OTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SW/NE, 28, T8S, R17E		COUNTY: Duchesne  STATE: Utah

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION <u>SubDate</u>		
	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Step Rate Test
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  05/10/2006			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A step rate test was conducted on the subject well on April 25, 2006. Results from the test indicate that the fracture gradient is .750 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1430 psi.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

NAME (PLEASE PRINT) <u>Cheyenne Batemen</u>	TITLE <u>Well Analyst Foreman</u>
SIGNATURE	DATE <u>05/10/2006</u>

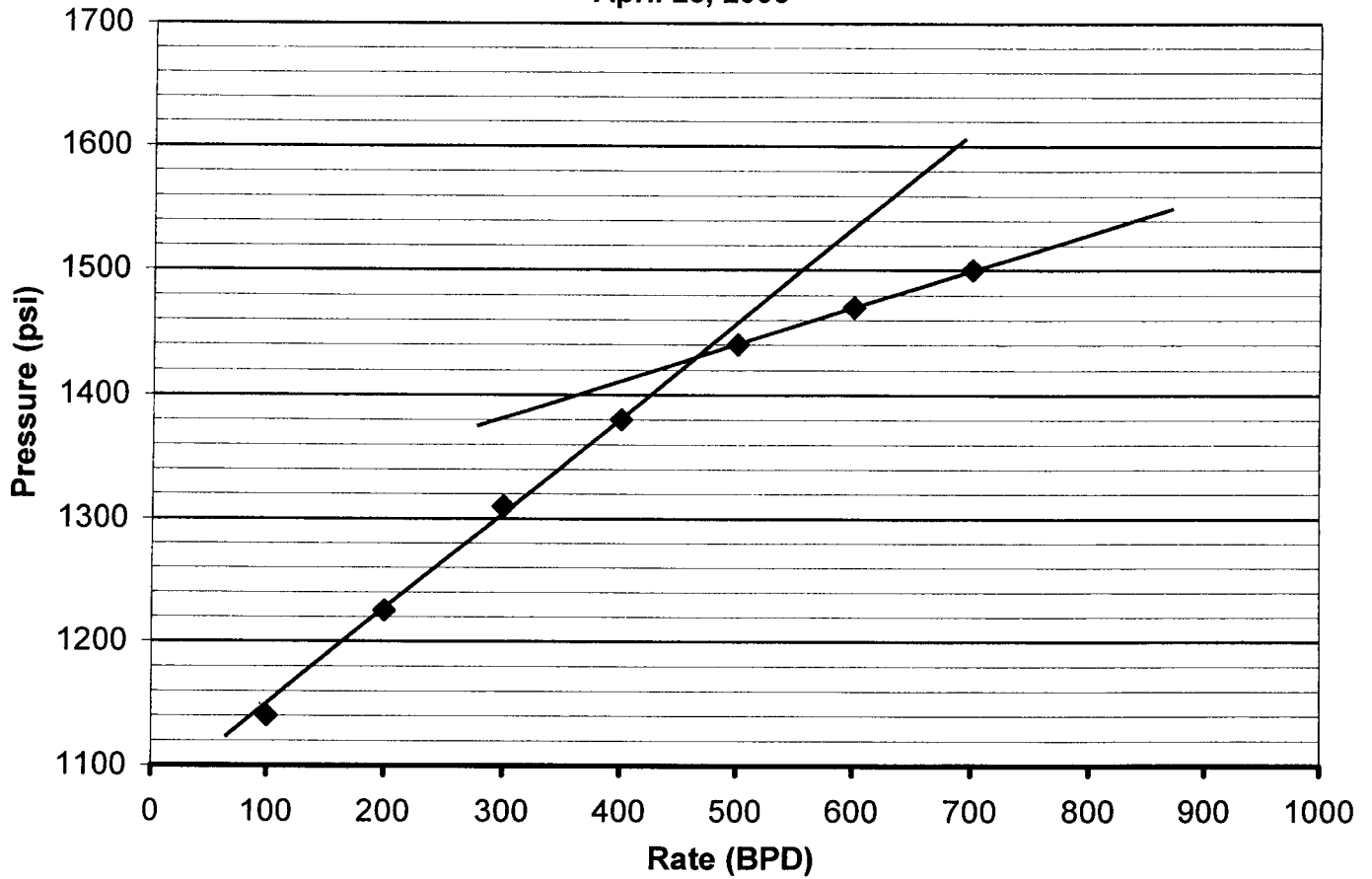
(This space for State use only)

RECEIVED

MAY 15 2006

DIV. OF OIL, GAS & MINING

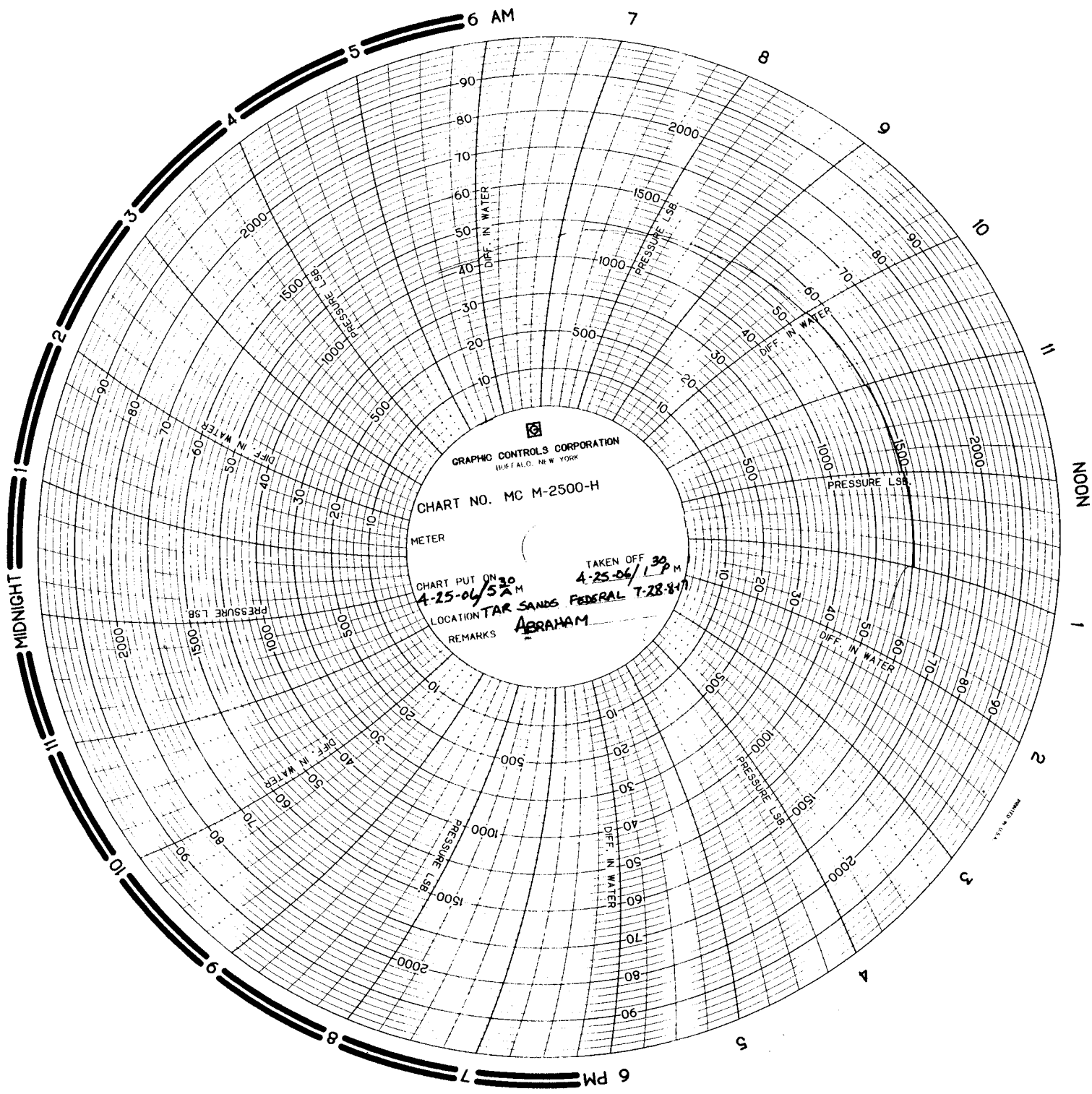
**Tar Sands Federal 7-28-8-17  
Greater Boundary II Unit  
Step Rate Test  
April 25, 2006**



**Start Pressure:** 1035 psi  
**Instantaneous Shut In Pressure (ISIP):** 1480 psi  
**Top Perforation:** 4546 feet  
**Fracture pressure (P<sub>fp</sub>):** 1430 psi  
**FG:** 0.750 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	100	1140
2	200	1225
3	300	1310
4	400	1380
5	500	1440
6	600	1470
7	700	1500





GRAPHIC CONTROLS CORPORATION  
BUFFALO, NEW YORK

CHART NO. MC M-2500-H

METER

CHART PUT ON  
4-25-06/5:30 AM

TAKEN OFF  
4-25-06/1:30 PM

LOCATION TAR SANDS FEDERAL T-28-847

REMARKS ABRAHAM

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an**  
**abandoned well. Use Form 3160-3 (APD) for such proposals.**

SUBJECT: NEWFIELD PRODUCTION COMPANY (OFFICE OF THE SECRETARY OF THE INTERIOR)

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2237 FNL 2031 FEL

SWNE Section 28 T8S R17E

5. Lease Serial No.

USA UTU-76241

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GREATER BOUNDARY II

8. Well Name and No.

TAR SANDS FED 7-28-8-17

9. API Well No.

4301332069

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Step Rate Test _____
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

A step rate test was conducted on the subject well on November 13, 2006. Results from the test indicate that the fracture gradient is .767 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1510 psi.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Chevenne Bateman

Signature

Title

Well Analyst Foreman

Date

01/05/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

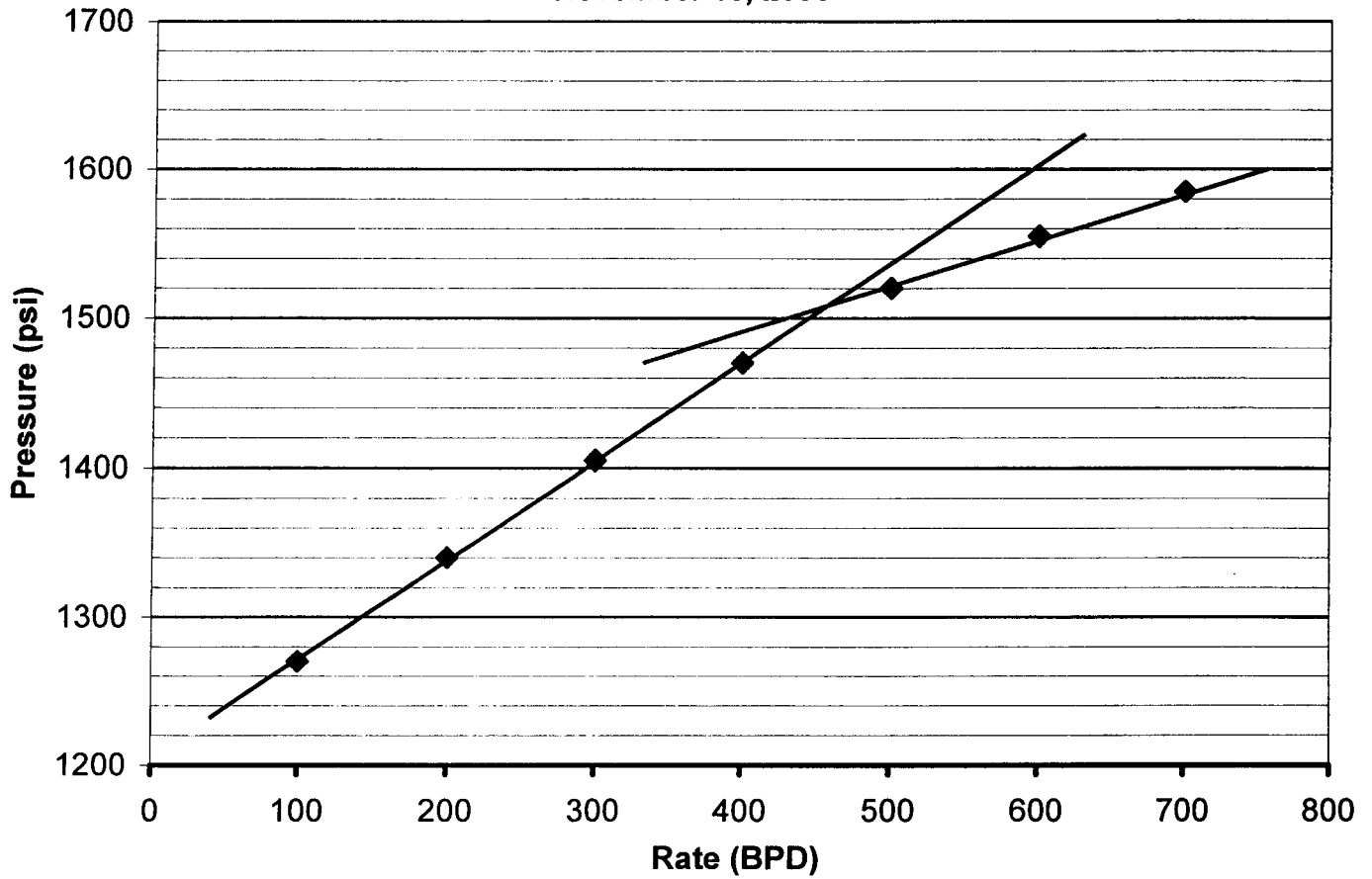
(Instructions on reverse)

RECEIVED

JAN 08 2007

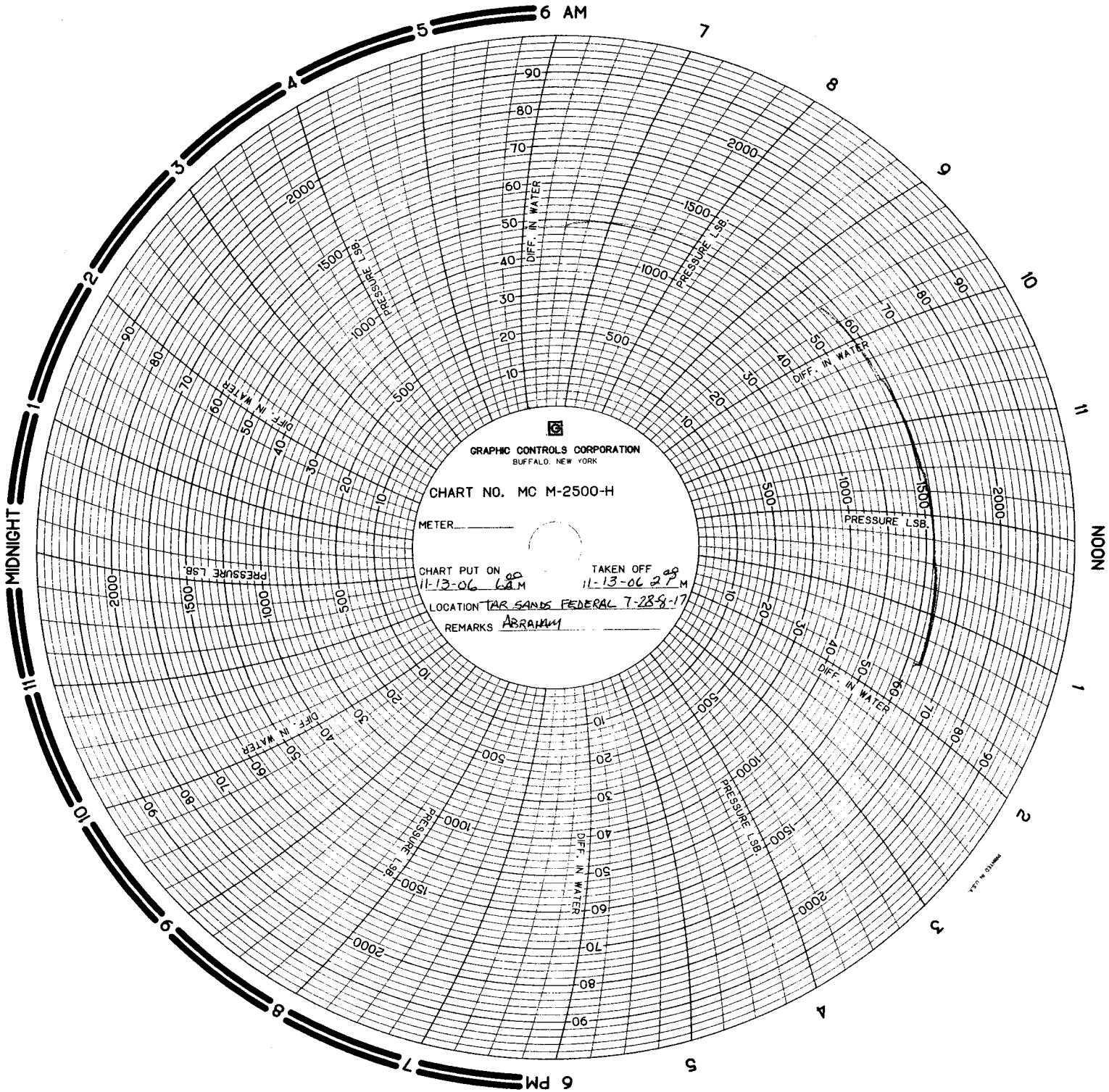
DIV. OF OIL, GAS & MINING

**Tar Sands Federal 7-28-8-17  
Greater Boundary II Unit  
Step Rate Test  
November 13, 2006**



**Start Pressure:** 1210 psi  
**Instantaneous Shut In Pressure (ISIP):** 1570 psi  
**Top Perforation:** 4546 feet  
**Fracture pressure (Pfp):** 1510 psi  
**FG:** 0.767 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	100	1270
2	200	1340
3	300	1405
4	400	1470
5	500	1520
6	600	1555
7	700	1585



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-76241
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: GMBU
PHONE NUMBER 435.646.3721		8. WELL NAME and NUMBER: TAR SANDS FED 7-28-8-17
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 2237 FNL 2031 FEL		9. API NUMBER: 4301332069
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWNE, 28, T8S, R17E		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
		COUNTY: DUCHESNE
		STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Step Rate Test
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  02/09/2010			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A step rate test was conducted on the subject well on February 9, 2010. Results from the test indicate that the fracture gradient is .801 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed from 1510 psi to 1640 psi.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant  
SIGNATURE  DATE 02/16/2010

(This space for State use only)

RECEIVED

MAR 08 2010

DIV. OF OIL, GAS & MINING

## Step Rate Test (SRT) Analysis

Date: 02/16/2010

Operator:

Newfield Production Company

Well:

Tar Sands Federal 7-28-8-17

Permit #:

UT20702-04519

**Enter the following data :**

Specific Gravity (sg) of injectate = 1.015 g/cc  
Depth to top perforation (D) = 4546 feet 4546  
Top of permitted injection zone depth (blank=use top perforation to calculate fg) = \_\_\_\_\_ feet  
Estimated Formation Parting Pressure (Pfp) from SRT chart = 1645 psi 1645  
Instantaneous Shut In Pressure (ISIP) from SRT = 1688 psi 1688  
Bottom Hole Parting Pressure (Pbhp) from downhole pressure recorder = \_\_\_\_\_ psi no downhole

### Part One - Calculation of Fracture Gradient (fg)

**Calculated Fracture Gradient = 0.801 psi/ft.**

where:  $fg = Pbhp / D$  (Note: this formula uses the downhole recorded bottom hole parting pressure if available) = 1688

D = depth used = 4546

Pbhp used = 3643

**Calculated Bottom Hole Parting Pressure (Pbhp) = 3643 psi**

3642.944

to calculate Bottom Hole Parting Pressure (Pbhp) = Formation Fracture Pressure (ISIP or Pfp) + (0.433 \* SG \* D)

( Uses lesser of ISIP or Pfp ) Value used = 1645

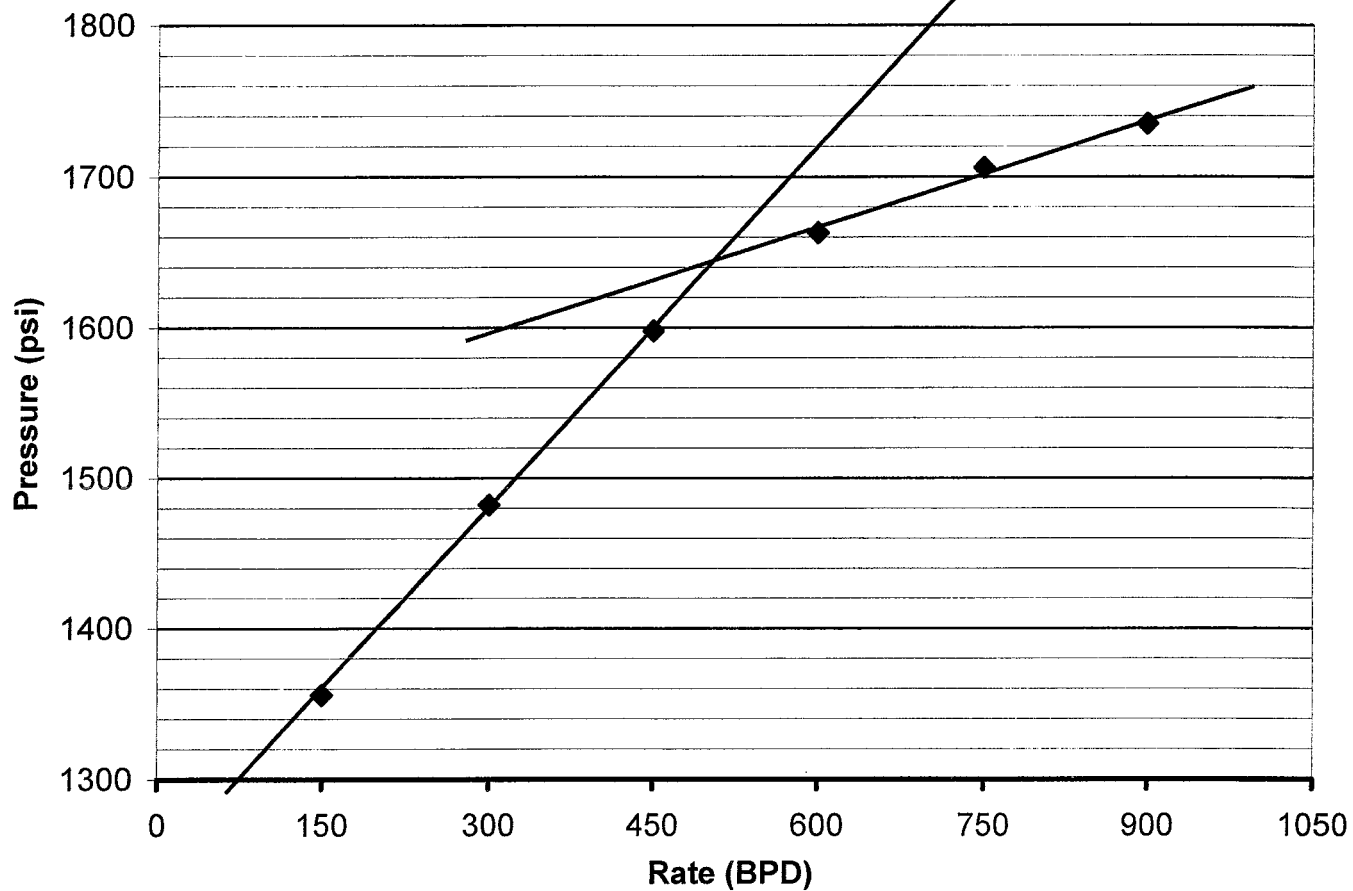
### Part Two - Calculation of Maximum Allowable Injection Pressure (MAIP)

**Maximum Allowable Injection Pressure (MAIP) = 1640 psig**  
(rounded down to nearest 5 psig)

D = depth used = 4546

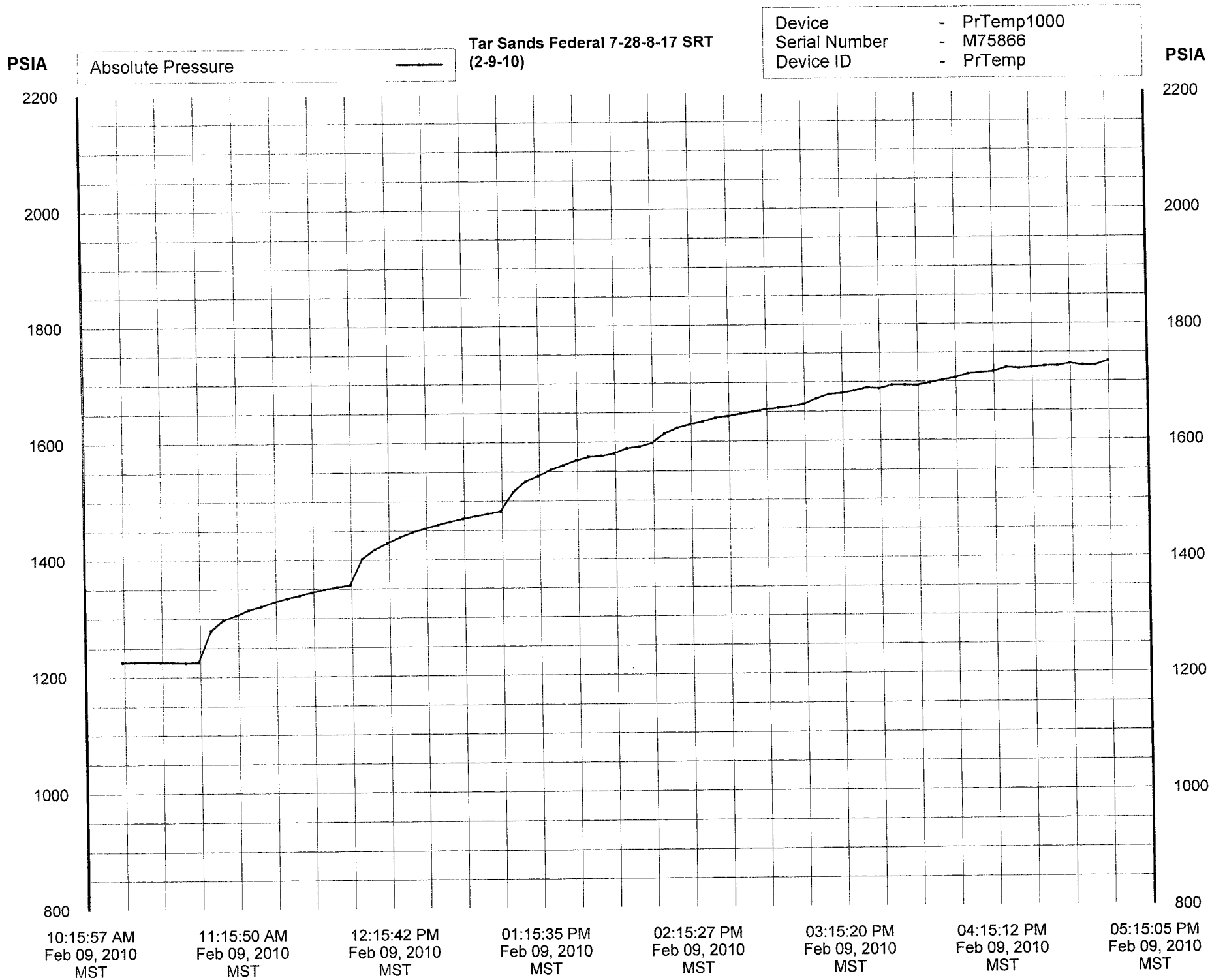
MAIP =  $fg \cdot (0.433 \cdot SG) \cdot D = 1643.402$

**Tar Sands Federal 7-28-8-17  
Greater Monument Butte Unit  
Step Rate Test  
February 9, 2010**



**Start Pressure:** 1225 psi  
**Instantaneous Shut In Pressure (ISIP):** 1688 psi  
**Top Perforation:** 4546 feet  
**Fracture pressure (Pfp):** 1645 psi  
**FG:** 0.801 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	150	1356
2	300	1482
3	450	1598
4	600	1663
5	750	1706
6	900	1735

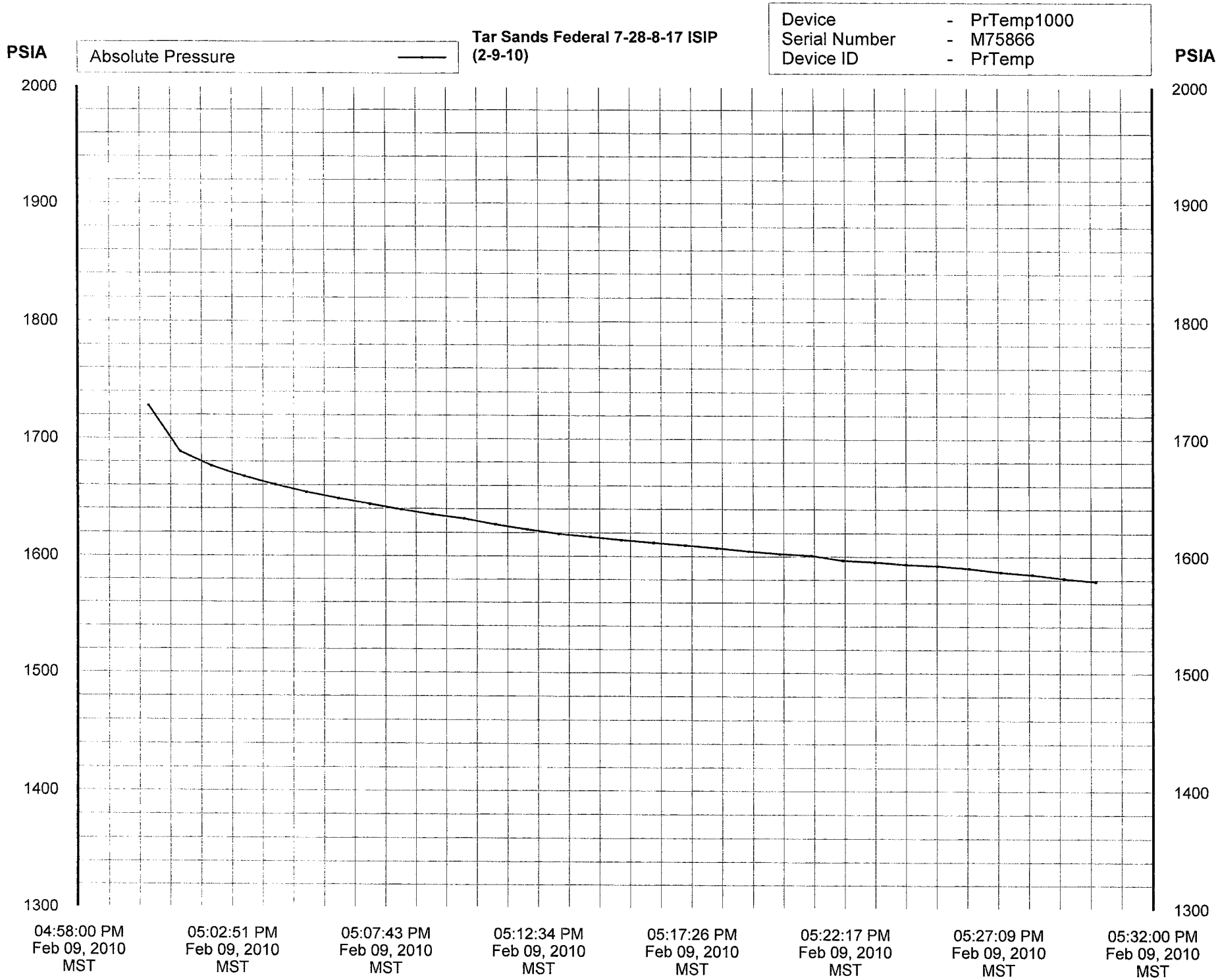




Report Name: PrTemp1000 Data Table  
 Report Date: Feb 12, 2010 10:19:52 AM MST  
 File Name: C:\Program Files\PTC® Instruments 2.00\Tar Sands Federal 7-28-8-17 SRT (2-9-10).csv  
 Title: Tar Sands Federal 7-28-8-17 SRT (2-9-10)  
 Device: PrTemp1000 - Temperature and Pressure Recorder  
 Hardware Revision: REV2C (64K)  
 Serial Number: M75866  
 Device ID: PrTemp  
 Data Start Date: Feb 09, 2010 10:30:01 AM MST  
 Data End Date: Feb 09, 2010 05:00:00 PM MST  
 Reading Rate: 2 Seconds  
 Readings: 1 to 79 of 79  
 Last Calibration Date: May 22, 2009  
 Next Calibration Date: May 22, 2010

<u>Reading</u>	<u>Date and Time (MST)</u>	<u>Absolute Pressure</u>	<u>Annotation</u>
1	Feb 09, 2010 10:30:01 AM	1225.400	PSIA
2	Feb 09, 2010 10:35:00 AM	1226.000	PSIA
3	Feb 09, 2010 10:40:01 AM	1226.000	PSIA
4	Feb 09, 2010 10:45:00 AM	1225.400	PSIA
5	Feb 09, 2010 10:50:01 AM	1225.200	PSIA
6	Feb 09, 2010 10:55:00 AM	1224.400	PSIA
7	Feb 09, 2010 11:00:01 AM	1225.200	PSIA
8	Feb 09, 2010 11:05:01 AM	1278.600	PSIA
9	Feb 09, 2010 11:10:00 AM	1296.800	PSIA
10	Feb 09, 2010 11:15:01 AM	1304.800	PSIA
11	Feb 09, 2010 11:20:00 AM	1313.600	PSIA
12	Feb 09, 2010 11:25:00 AM	1320.200	PSIA
13	Feb 09, 2010 11:30:06 AM	1328.000	PSIA
14	Feb 09, 2010 11:35:07 AM	1334.000	PSIA
15	Feb 09, 2010 11:40:08 AM	1339.000	PSIA
16	Feb 09, 2010 11:45:07 AM	1343.800	PSIA
17	Feb 09, 2010 11:50:01 AM	1349.000	PSIA
18	Feb 09, 2010 11:55:07 AM	1352.800	PSIA
19	Feb 09, 2010 12:00:01 PM	1356.000	PSIA
20	Feb 09, 2010 12:05:00 PM	1401.400	PSIA
21	Feb 09, 2010 12:10:07 PM	1418.000	PSIA
22	Feb 09, 2010 12:15:07 PM	1429.400	PSIA
23	Feb 09, 2010 12:20:06 PM	1439.000	PSIA
24	Feb 09, 2010 12:25:07 PM	1447.400	PSIA
25	Feb 09, 2010 12:30:07 PM	1453.400	PSIA
26	Feb 09, 2010 12:35:08 PM	1459.400	PSIA
27	Feb 09, 2010 12:40:00 PM	1464.600	PSIA
28	Feb 09, 2010 12:45:00 PM	1469.400	PSIA
29	Feb 09, 2010 12:49:59 PM	1474.000	PSIA
30	Feb 09, 2010 12:55:00 PM	1477.800	PSIA
31	Feb 09, 2010 12:59:59 PM	1481.800	PSIA
32	Feb 09, 2010 01:05:00 PM	1515.200	PSIA
33	Feb 09, 2010 01:10:00 PM	1533.400	PSIA
34	Feb 09, 2010 01:15:00 PM	1542.400	PSIA
35	Feb 09, 2010 01:20:00 PM	1553.000	PSIA
36	Feb 09, 2010 01:25:00 PM	1560.600	PSIA
37	Feb 09, 2010 01:30:01 PM	1568.600	PSIA
38	Feb 09, 2010 01:34:59 PM	1574.600	PSIA
39	Feb 09, 2010 01:40:00 PM	1576.000	PSIA
40	Feb 09, 2010 01:44:59 PM	1580.400	PSIA
41	Feb 09, 2010 01:50:01 PM	1588.800	PSIA
42	Feb 09, 2010 01:55:00 PM	1591.600	PSIA
43	Feb 09, 2010 02:00:00 PM	1597.600	PSIA
44	Feb 09, 2010 02:05:00 PM	1613.800	PSIA
45	Feb 09, 2010 02:10:01 PM	1623.600	PSIA
46	Feb 09, 2010 02:15:00 PM	1629.400	PSIA
47	Feb 09, 2010 02:20:00 PM	1634.000	PSIA
48	Feb 09, 2010 02:25:05 PM	1640.200	PSIA
49	Feb 09, 2010 02:30:02 PM	1642.800	PSIA
50	Feb 09, 2010 02:35:08 PM	1646.800	PSIA
51	Feb 09, 2010 02:40:00 PM	1650.400	PSIA
52	Feb 09, 2010 02:45:00 PM	1653.800	PSIA
53	Feb 09, 2010 02:50:01 PM	1656.200	PSIA
54	Feb 09, 2010 02:55:01 PM	1659.000	PSIA
55	Feb 09, 2010 03:00:00 PM	1662.600	PSIA
56	Feb 09, 2010 03:04:59 PM	1671.800	PSIA
57	Feb 09, 2010 03:10:00 PM	1679.000	PSIA
58	Feb 09, 2010 03:15:00 PM	1681.000	PSIA
59	Feb 09, 2010 03:20:00 PM	1685.000	PSIA

60	Feb 09, 2010 03:25:00 PM	1690.200	PSIA
61	Feb 09, 2010 03:30:00 PM	1688.800	PSIA
62	Feb 09, 2010 03:35:00 PM	1694.600	PSIA
63	Feb 09, 2010 03:40:01 PM	1694.600	PSIA
64	Feb 09, 2010 03:45:00 PM	1693.800	PSIA
65	Feb 09, 2010 03:49:59 PM	1698.000	PSIA
66	Feb 09, 2010 03:55:01 PM	1702.400	PSIA
67	Feb 09, 2010 03:59:59 PM	1705.800	PSIA
68	Feb 09, 2010 04:05:00 PM	1712.400	PSIA
69	Feb 09, 2010 04:10:01 PM	1714.600	PSIA
70	Feb 09, 2010 04:15:00 PM	1716.400	PSIA
71	Feb 09, 2010 04:20:01 PM	1723.400	PSIA
72	Feb 09, 2010 04:25:01 PM	1722.000	PSIA
73	Feb 09, 2010 04:30:00 PM	1723.200	PSIA
74	Feb 09, 2010 04:34:59 PM	1725.600	PSIA
75	Feb 09, 2010 04:40:00 PM	1725.800	PSIA
76	Feb 09, 2010 04:44:59 PM	1729.800	PSIA
77	Feb 09, 2010 04:50:00 PM	1726.800	PSIA
78	Feb 09, 2010 04:54:59 PM	1726.600	PSIA
79	Feb 09, 2010 05:00:00 PM	1734.600	PSIA



Report Name: PrTemp1000 Data Table  
 Report Date: Feb 12, 2010 10:19:44 AM MST  
 File Name: C:\Program Files\PTC® Instruments 2.00\Tar Sands Federal 7-28-8-17 ISIP (2-9-10).csv  
 Title: Tar Sands Federal 7-28-8-17 ISIP (2-9-10)  
 Device: PrTemp1000 - Temperature and Pressure Recorder  
 Hardware Revision: REV2C (64K)  
 Serial Number: M75866  
 Device ID: PrTemp  
 Data Start Date: Feb 09, 2010 05:00:13 PM MST  
 Data End Date: Feb 09, 2010 05:30:13 PM MST  
 Reading Rate: 2 Seconds  
 Readings: 1 to 31 of 31  
 Last Calibration Date: May 22, 2009  
 Next Calibration Date: May 22, 2010

<u>Reading</u>	<u>Date and Time (MST)</u>	<u>Absolute Pressure</u>	<u>Annotation</u>
1	Feb 09, 2010 05:00:13 PM	1727.600	PSIA
2	Feb 09, 2010 05:01:13 PM	1688.200	PSIA
3	Feb 09, 2010 05:02:12 PM	1676.000	PSIA
4	Feb 09, 2010 05:03:14 PM	1667.000	PSIA
5	Feb 09, 2010 05:04:13 PM	1660.200	PSIA
6	Feb 09, 2010 05:05:12 PM	1653.800	PSIA
7	Feb 09, 2010 05:06:13 PM	1648.400	PSIA
8	Feb 09, 2010 05:07:13 PM	1643.600	PSIA
9	Feb 09, 2010 05:08:13 PM	1639.200	PSIA
10	Feb 09, 2010 05:09:13 PM	1635.200	PSIA
11	Feb 09, 2010 05:10:13 PM	1631.800	PSIA
12	Feb 09, 2010 05:11:13 PM	1626.800	PSIA
13	Feb 09, 2010 05:12:14 PM	1622.600	PSIA
14	Feb 09, 2010 05:13:13 PM	1619.000	PSIA
15	Feb 09, 2010 05:14:13 PM	1616.400	PSIA
16	Feb 09, 2010 05:15:12 PM	1613.800	PSIA
17	Feb 09, 2010 05:16:13 PM	1611.600	PSIA
18	Feb 09, 2010 05:17:13 PM	1609.400	PSIA
19	Feb 09, 2010 05:18:13 PM	1607.000	PSIA
20	Feb 09, 2010 05:19:14 PM	1604.400	PSIA
21	Feb 09, 2010 05:20:13 PM	1602.200	PSIA
22	Feb 09, 2010 05:21:13 PM	1600.800	PSIA
23	Feb 09, 2010 05:22:13 PM	1596.800	PSIA
24	Feb 09, 2010 05:23:14 PM	1595.400	PSIA
25	Feb 09, 2010 05:24:14 PM	1593.400	PSIA
26	Feb 09, 2010 05:25:13 PM	1592.200	PSIA
27	Feb 09, 2010 05:26:13 PM	1590.200	PSIA
28	Feb 09, 2010 05:27:13 PM	1587.000	PSIA
29	Feb 09, 2010 05:28:13 PM	1584.600	PSIA
30	Feb 09, 2010 05:29:13 PM	1581.400	PSIA
31	Feb 09, 2010 05:30:13 PM	1578.800	PSIA

# **Tar Sands Federal 7-28-8-17 Rate Sheet (2-9-10)**

<b>Step # 1</b>	Time:	11:05	11:10	11:15	11:20	11:25	11:30
	Rate:	150.4	150.4	150.4	150.4	150.3	150.3
	Time:	11:35	11:40	11:45	11:50	11:55	12:00
	Rate:	150.3	150.3	150.3	150.2	150.2	150.2
<b>Step # 2</b>	Time:	12:05	12:10	12:15	12:20	12:25	12:30
	Rate:	300.5	300.5	300.4	300.4	300.4	300.4
	Time:	12:35	12:40	12:45	12:50	12:55	1:00
	Rate:	300.4	300.3	300.3	300.3	300.2	300.2
<b>Step # 3</b>	Time:	1:05	1:10	1:15	1:20	1:25	1:30
	Rate:	450.5	450.5	450.5	450.5	450.5	450.4
	Time:	1:35	1:40	1:45	1:50	1:55	2:00
	Rate:	450.4	450.4	450.4	450.3	450.2	450.2
<b>Step # 4</b>	Time:	2:05	2:10	2:15	2:20	2:25	2:30
	Rate:	600.5	600.4	600.4	600.3	600.3	600.2
	Time:	2:35	2:40	2:45	2:50	2:55	3:00
	Rate:	600.2	600.2	600.1	600.1	600.1	600
<b>Step # 5</b>	Time:	3:05	3:10	3:15	3:20	3:25	3:30
	Rate:	750.6	750.6	750.5	750.4	750.4	750.4
	Time:	3:35	3:40	3:45	3:50	3:55	4:00
	Rate:	750.3	750.3	750.2	750.2	750.1	750.1
<b>Step # 6</b>	Time:	4:05	4:10	4:15	4:20	4:25	4:30
	Rate:	900.4	900.4	900.4	900.4	900.3	900.3
	Time:	4:35	4:40	4:45	4:50	4:55	5:00
	Rate:	900.3	900.2	900.1	900.1	900	900
	Time:						
	Rate:						
	Time:						
	Rate:						
	Time:						
	Rate:						
	Time:						
	Rate:						



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
Denver, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

**MAR 30 2010**

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Michael Guinn  
District Manager  
Newfield Production Company  
Route 3-Box 3630  
Myton, UT 84502

**RECEIVED**

**APR 07 2010**

**DIV. OF OIL, GAS & MINING**

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

RE: Underground Injection Control (UIC)  
Minor Permit Modification  
Authorization to Continue Injection  
EPA UIC Permit UT20702-04519  
Well: Tar Sands Federal 7-28-8-17  
SW/NE Sec. 28, T8S, R17E  
Duchesne County, UT  
API No.: 43-013-32069

Dear Mr. Guinn:

This is in response to the Newfield Production Company (Newfield) letters dated February 16, 2010, and March 15, 2010, concerning recent tests on the Tar Sands Federal 7-28-8-17 injection well. The Environmental Protection Agency Region 8 (EPA) Underground Injection Control (UIC) Program staff has reviewed the information you provided. The results of the EPA reviews are discussed below.

The Newfield letter dated February 16, 2010, regarding the February 9, 2010, Step Rate Test (SRT) on the Tar Sands Federal 7-28-8-17 well demonstrated the fracture gradient to be 0.801 psig/ft. That result was confirmed by EPA's analysis of the data. As such, the Maximum Allowable Injection Pressure (MAIP) is hereby increased to 1,640 psig from the 1,510 psig approved previously.

The Newfield letter dated March 15, 2010, regarding the March 3, 2010, Radioactive Tracer Survey (RTS) for the Tar Sands Federal 7-28-8-17 well has also been reviewed. EPA has determined that the RTS result demonstrates the presence of adequate cement to prevent the upward migration of injection fluids behind casing from the injection zone at the MAIP of 1,640 psig.

As of the date of this letter, EPA authorizes continued injection into the Tar Sands Federal 7-28-8-17 well under the terms and conditions of EPA UIC Permit UT20702-04519 at the revised MAIP of 1,640 psig.

You may apply for a higher MAIP at a later date. Your application should be accompanied by the interpreted results of a SRT that measures the formation fracture pressure and determines the fracture gradient at the injection depth and location. A current copy of EPA guidelines for running and interpreting a SRT will be sent upon request. Should the SRT result in approval of a higher MAIP, a subsequent RTS is required to demonstrate the presence of adequate cement to prevent the upward migration of injection fluids behind casing from the injection zone at the higher MAIP.

As of this approval, responsibility for permit compliance and enforcement is transferred to the EPA Region 8 UIC Technical Enforcement Program Office. Therefore, please direct all future notification, reporting, monitoring and compliance correspondence to the following address, referencing the well name and UIC Permit number on all correspondence regarding this well:

US EPA, Region 8  
Attn: Nathan Wiser  
MC: ENF-UFO  
1595 Wynkoop Street  
Denver, CO 80202

UIC Technical Enforcement Program Office  
EPA Region 8  
1595 Wynkoop Street  
Denver, CO 80202  
TEL: 303-312-6949  
FAX: 303-312-6949

For questions regarding notification, testing, monitoring, reporting or other permit requirements, Nathan Wiser of the UIC Technical Enforcement Program may be reached by calling 800-227-8917 (ext. 312-6211). Please be reminded that it is your responsibility to be aware of and to comply with all conditions of your Permit.

If you have any questions regarding this approval, please call Tom Aalto at 303-312-6949 or 800-227-8917 (ext. 312-6949).

Sincerely,



Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:

Curtis Cesspooch, Chairman  
Ronald Groves, Councilman  
Irene Cuch, Vice-Chairwoman  
Steven Cesspooch, Councilman  
Phillip Chimburas, Councilman  
Frances Poowegup, Councilwoman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Ferron Secakuku  
Director, Natural Resources  
Ute Indian Tribe

Larry Love  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Gil Hunt  
Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst  
Newfield Production Company



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-76241

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME: GMBU
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		8. WELL NAME and NUMBER: TAR SANDS FED 7-28-8-17
PHONE NUMBER 435.646.3721		9. API NUMBER: 4301332069
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 2237 FNL 2031 FEL		10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWNE, 28, T8S, R17E		COUNTY: DUCHESNE
		STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

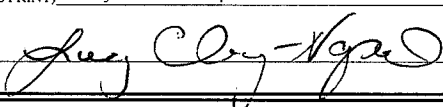
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: 09/28/2010	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Five Year MIT
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 09/13/2010 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above listed well. On 09/28/2010 the casing was pressured up to 1310 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 1580 psig during the test. There was not an EPA representative available to witness the test.

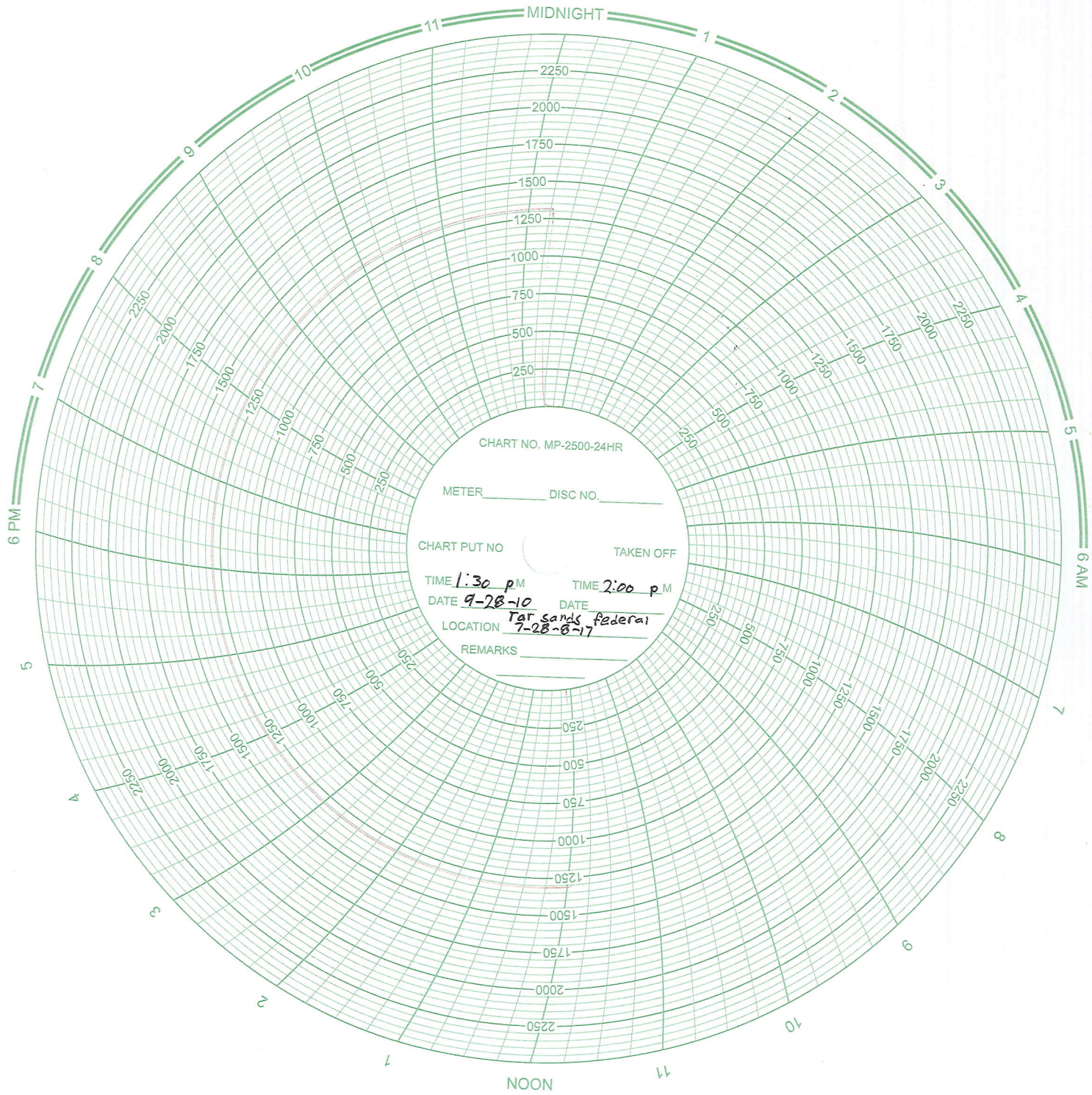
EPA# UT20702-04519 API# 43-013-32069

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

NAME (PLEASE PRINT) <u>Lucy Chavez-Naupoto</u>	TITLE <u>Administrative Assistant</u>
SIGNATURE <u></u>	DATE <u>09/29/2010</u>

(This space for State use only)

**RECEIVED**  
**OCT 04 2010**  
DIV. OF OIL, GAS & MINING



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-76241
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> TAR SANDS FED 7-28-8-17
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2237 FNL 2031 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 28 Township: 08.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013320690000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/25/2015	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: 5 YR MIT	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. 5 YR MIT performed on the above listed well. On 08/25/2015 the casing was pressured up to 1189 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 1439 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-04519		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> August 27, 2015		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/26/2015	



# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 8 / 25 / 2015  
Test conducted by: Shannon Lazenby  
Others present: \_\_\_\_\_

Well Name: <u>Tar Sands Federal 7-28-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Greater Monument Butte</u>		
Location: <u>7-28-8-17</u> Sec: <u>28</u> T <u>SS</u> N/S R <u>17</u> E/W County: <u>Duchesne</u> State: <u>ut</u>		
Operator: <u>Shannon Lazenby</u>		
Last MIT: <u>      </u> / <u>      </u> / <u>      </u>	Maximum Allowable Pressure: <u>1489</u>	PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No  
Initial test for permit? ☐ Yes ☐ No  
Test after well rework? ☐ Yes ☐ No  
Well injecting during test? ☐ Yes ☒ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 0 / 1439 psig

MIT DATA TABLE		Test #1	Test #2	Test #3
<b>TUBING</b>		<b>PRESSURE</b>		
Initial Pressure	<u>1439</u> psig	psig	psig	psig
End of test pressure	<u>1439</u> psig	psig	psig	psig
<b>CASING / TUBING</b>		<b>ANNULUS PRESSURE</b>		
0 minutes	<u>1188.0</u> psig	psig	psig	psig
5 minutes	<u>1188.4</u> psig	psig	psig	psig
10 minutes	<u>1188.4</u> psig	psig	psig	psig
15 minutes	<u>1188.2</u> psig	psig	psig	psig
20 minutes	<u>1188.2</u> psig	psig	psig	psig
25 minutes	<u>1188.2</u> psig	psig	psig	psig
30 minutes	<u>1188.6</u> psig	psig	psig	psig
_____ minutes	psig	psig	psig	psig
_____ minutes	psig	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

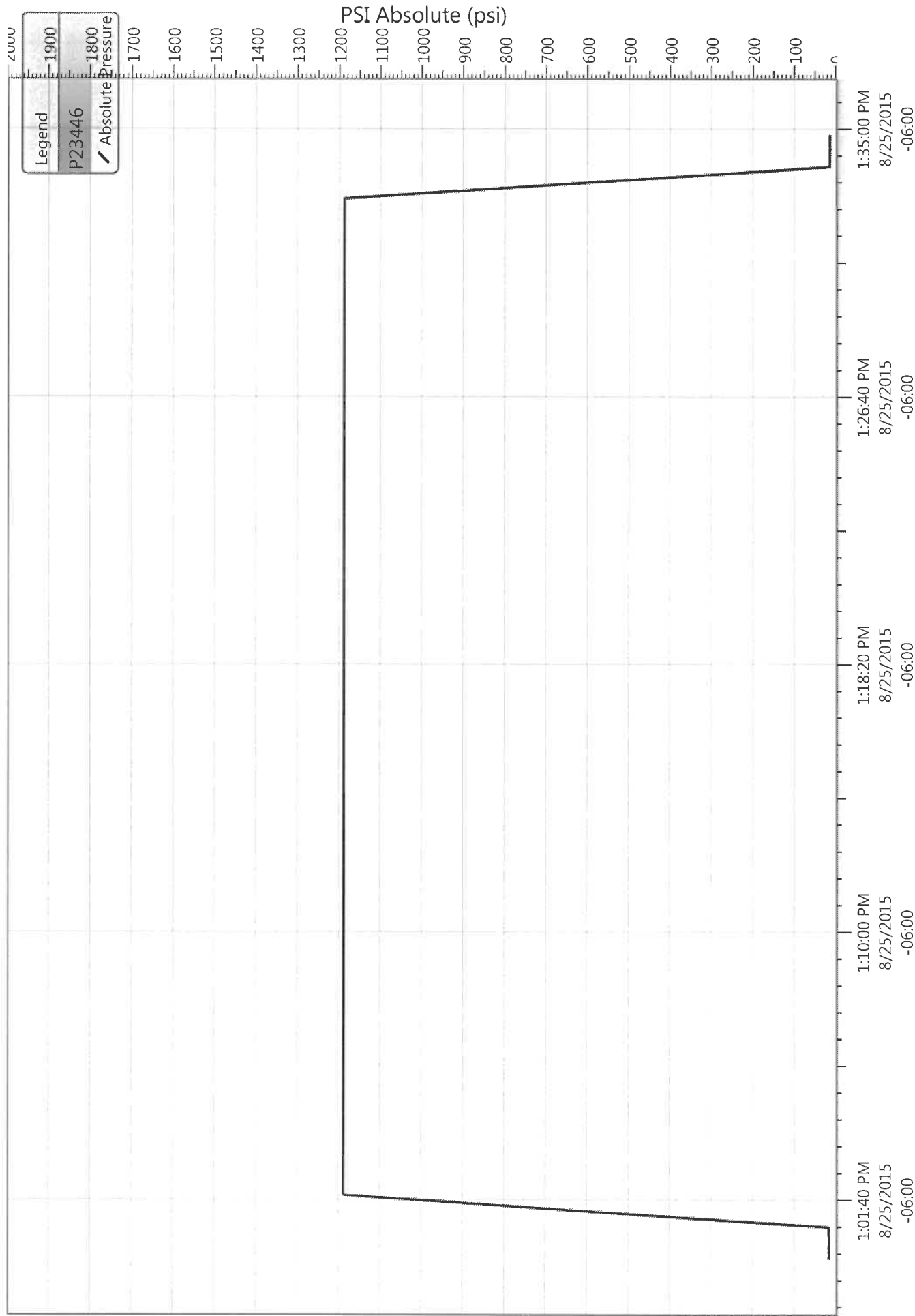
Does the annulus pressure build back up after the test ? ☐ Yes ☐ No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_

7-28-8-17 5 year MIT  
8/25/2015 12:59:21 PM



# Tar Sands Federal #7-28

Spud Date: 6/22/98 Put on  
Production: 8/8/98 GL:  
5196' KB: 5206'

## Injection Wellbore Diagram

Initial Production: 112 BOPD  
196 MCFPD, 12 BWPD

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 26#  
LENGTH: 7 jts. (292.33')  
DEPTH LANDED: 292.83' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Class G crnt, est 4.5 bbls to surf

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 145 jts. (6165')  
DEPTH LANDED: 6176' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 360 sxs Premium Lite mixed & 400 sxs Class G  
CEMENT TOP AT: Surface per CBL

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 138 jts  
PACKER: 4463'  
SEATING NIPPLE: 2-7/8" (1.10')  
TOTAL STRING LENGTH: BOT @ 4467'  
SN LANDED AT: 4460'

### SUCKER RODS

POLISHED ROD  
SUCKER RODS:  
PUMP SIZE:  
STROKE LENGTH:  
PUMP SPEED, SPM:  
LOGS: Dual Larterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

12/4/00

### FRAC JOB

7/29/98 5904'-6003' **Frac C P sand as follows:**  
111,000# of 20/40 sand in 564 bbls  
Viking 1-25 fluid. PreFs broke down @  
2420 psi. Treated @ avg press of 1335  
psi w/avg rate of 29.9 bpm. ISIP: 1850  
psi. 5-min 1750 psi. Flowback on 12/64  
choke for 6 hours and died.

7/31/98 5232'-5246' **Frac C sand as follows:**  
104,500# of 20/40 sand in 531 bbls  
Viking 1-25 fluid. PreFs broke down @  
2920 psi. Treated @ avg press of 1620  
psi w/avg rate of 27.8 bpm. ISIP: 2420  
psi. 5-min 2200 psi. Flowback on 12/64  
choke for 3 hours and died.

8/3/98 5052'-5061' **Frac D sand as follows:**  
93,700# of 20/40 sand in 500 bbls  
Viking 1-25 fluid. PreFs broke down @  
2230 psi. Treated @ avg press of 1580  
psi w/avg rate of 26.7 bpm. ISIP: 2350  
psi. 5-min 1860 psi. Flowback on 12/64  
choke for 3 hours and died.

8/5/98 4546'-4596' **Frac GB sand as follows:**  
104,500# of 20/40 sand in 513 bbls  
Viking 1-25 fluid. PreFs broke down @  
3200 psi. Treated @ avg press of 1760  
psi w/avg rate of 28.8 bpm. ISIP: 2090  
psi. 5-min 1640 psi. Flowback on 12/64  
choke for 3-1/2 hours and died.

11/7/05 **5 Year MIT Completed.**  
9-28-10 **5 yr MIT**

Packer @ 4463'

### PERFORATION RECORD

Date	Interval	ISPF	Holes
7/28/98	5904'-5906'	4	ISPF 8 holes
7/28/98	5924'-5932'	4	ISPF 32 holes
7/28/98	5999'-6003'	4	ISPF 16 holes
7/30/98	5232'-5246'	4	ISPF 56 holes
8/1/98	5052'-5061'	4	ISPF 36 holes
8/4/98	4546'-4555'	4	ISPF 36 holes
8/4/98	4592'-4596'	4	ISPF 16 holes

SN @ 4460'  
EOT @ 4467'  
Sand PBTD @ 6115'  
PBTD @ 6127'  
TD @ 6260'



**Tar Sands Federal #7-28**  
2237 FNL 2031 FEL  
SWNE Section 28-T8S-R17E  
Duchesne Co, Utah  
API #43-013-32069; Lease #UTU-76241

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

JRM APPROVED  
OMB No. 1004-0157  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No USA UTU-76241
2. Name of Operator NEWFIELD PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name
3a. Address Route 3 Box 3630 Myton, UT 84052	3b. Phone (include are code) 435.646.3721	7. If Unit or CA/Agreement, Name and/or GMBU
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2237 FNL 2031 FEL SWNE Section 28 T8S R17E		8. Well Name and No. TAR SANDS FED 7-28-8-17
		9. API Well No 4301332069
		10. Field and Pool, or Exploratory Area GREATER MB UNIT
		11. County or Parish, State DUCHESNE, UT

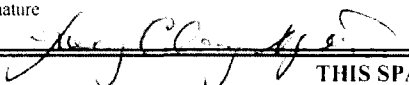
**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Five Year MIT _____
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 09/13/2010 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above listed well. On 09/28/2010 the casing was pressured up to 1310 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 1580 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT20702-04519 API# 43-013-32069

I hereby certify that the foregoing is true and correct (Printed Typed) Lucy Chavez-Naupoto	Title Administrative Assistant
Signature 	Date 09/29/2010
<b>THIS SPACE FOR FEDERAL OR STATE OFFICE USE</b>	

Approved by _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office _____	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5 LEASE DESIGNATION AND SERIAL NUMBER  
USA UTU-76241

**SUNDRY NOTICES AND REPORTS ON WELLS**

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6 IF INDIAN, ALLOTTEE OR TRIBE NAME

7 UNIT or CA AGREEMENT NAME  
GMBU

8 WELL NAME and NUMBER  
TAR SANDS FED 7-28-8-17

9 API NUMBER  
4301332069

10 FIELD AND POOL, OR WILDCAT  
GREATER MB UNIT

1 TYPE OF WELL  
OIL WELL ☒ GAS WELL ☐ OTHER

2 NAME OF OPERATOR  
NEWFIELD PRODUCTION COMPANY

3 ADDRESS OF OPERATOR  
Route 3 Box 3630 CITY MVLON STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4 LOCATION OF WELL  
FOOTAGES AT SURFACE 2237 FNL 2031 FEL COUNTY DUCHESNE

OTR, OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN SWNE, 28, T8S, R17E STATE UT

11 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON	
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion  09/28/2010	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER - Five Year MIT	
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

12 DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 09/13/2010 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above listed well. On 09/28/2010 the casing was pressured up to 1310 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 1580 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT20702-04519 API# 43-013-32069

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE

DATE 09/29/2010

(This space for State use only)





September 29, 2010

Mr. Nathan Wiser  
US EPA Region 8  
1595 Wynkoop Street  
Denver, Colorado 80202-1129

RE: 5 Year MIT  
Tar Sands Federal 7-28-8-17  
EPA #: UT20702-04519

Dear Mr. Wiser:

A 5-year MIT was conducted on the subject well. Attached are the EPA tabular sheet and a copy of the chart. If you have any questions please give me a call at 435 646-4874.

Sincerely,

A handwritten signature in black ink, appearing to read "Lucy Chavez-Naupoto".

Lucy Chavez-Naupoto  
Administrative Assistant



September 29, 2010

Mr. Brad Hill  
State of Utah, DOGM  
1594 West North Temple-Suite 1310  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: 5 Year MIT  
Tar Sands Federal 7-28-8-17  
API #43-013-32069

Dear Mr. Brad Hill:

A 5-year MIT was conducted on the subject well. Attached are the sundry, tabular sheet and a copy of the chart. If you have any questions please give me a call at 435-646-4874.

Sincerely,

A handwritten signature in cursive script, appearing to read "Lucy Chavez-Naupoto".

Lucy Chavez-Naupoto  
Administrative Assistant

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 9 128 110  
Test conducted by: Rusty Bird  
Others present: \_\_\_\_\_

Well Name: <u>Tar Sands Federal 7-2B-8-17</u>		Type: <u>ER SWD</u>	Status: <u>AC TA UC</u>
Field: <u>Monument Butte</u>			
Location: <u>SW 1/4</u>	Sec: <u>28</u>	T <u>8</u> N <u>10</u> R <u>17</u> W	County: <u>Duchesne</u> State: <u>ut</u>
Operator: <u>Newfield</u>			
Last MIT: <u>/</u>	<u>/</u>	Maximum Allowable Pressure: <u>1640</u>	PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No  
Initial test for permit? ☐ Yes ☒ No  
Test after well rework? ☐ Yes ☒ No  
Well injecting during test? ☐ Yes ☒ No If Yes, rate: 0 bpd

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE		Test #1	Test #2	Test #3
<b>TUBING</b>		<b>PRESSURE</b>		
Initial Pressure	<u>1580</u>	psig	psig	psig
End of test pressure	<u>1580</u>	psig	psig	psig
<b>CASING / TUBING</b>		<b>ANNULUS PRESSURE</b>		
0 minutes	<u>1310</u>	psig	psig	psig
5 minutes	<u>1310</u>	psig	psig	psig
10 minutes	<u>1310</u>	psig	psig	psig
15 minutes	<u>1310</u>	psig	psig	psig
20 minutes	<u>1310</u>	psig	psig	psig
25 minutes	<u>1310</u>	psig	psig	psig
30 minutes	<u>1310</u>	psig	psig	psig
_____ minutes		psig	psig	psig
_____ minutes		psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: Rusty Bird

